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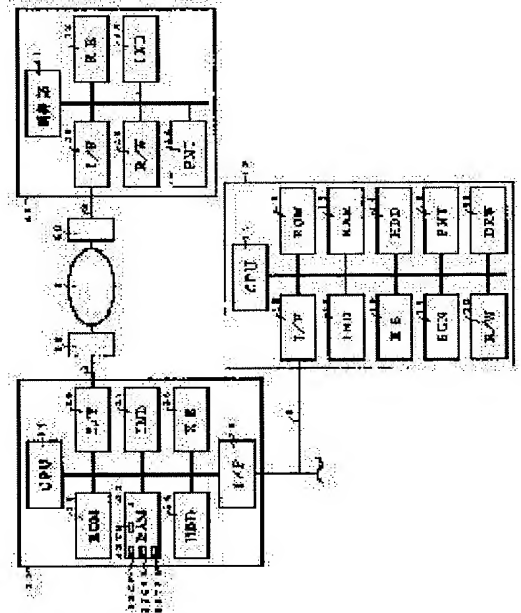
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## (54) MERCHANDISE SALES DATA PROCESSING SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To quickly and inexpensively distribute electronic coupons and to simplify the execution and the handling of the coupons by distributing the prepared electronic coupons through a network, reading the stored distributed electronic coupon data at the time of accounting, and performing accounting processing on which the data are reflected.

**SOLUTION:** Coupon data are inputted, electronic coupons are prepared and stored in a general coupon file 33CF at a store controller 30 side. Then, a CPU 31 and a ROM 32 while reading the stored electronic coupons, prepares distribution data and transfers the distribution data to a Web server 50 and the electronic coupons are distributed through an Internet 3 by electronic mails. In a client (personal computer 40), the electronic mails are opened and the electronic coupons are written and stored in an IC card. Then, an electronic cache register 10 reads the electronic coupon data from the IC card and executes accounting processing on which the read electronic coupon data are reflected.



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CLAIMS

[Claim(s)]

[Claim 1] The goods sales data processing system which inputted coupon data and formed the electronic coupon data concerned in the goods sales data processing system which has a goods add function and an account processing facility possible [ read ] and possible [ activation of said accounting in which reading electronic coupon data were made to reflect ] from that creation of an electronic coupon is possible and the storage with which the distributed electronic coupon was memorized while forming the created electronic coupon possible [ distribution ] through the network.

[Claim 2] In the goods sales data processing system which has a goods add function and an account processing facility A coupon data input means to input coupon data, and an electronic coupon creation means to create an electronic coupon using the inputted coupon data, The coupon file which memorizes the created electronic coupon, and an electronic coupon distribution means to distribute the electronic coupon memorized by this coupon file through a network, The goods sales data processing system which established an electronic coupon data reading means to read the electronic coupon data concerned in the storage with which the distributed electronic coupon was memorized, and a reflection processing means to perform said accounting in which the read electronic coupon data were made to reflect.

[Claim 3] The goods sales data processing system according to claim 2 with which said electronic coupon creation means is formed possible [ creation of the electronic coupon according to rank ].

[Claim 4] The goods sales data processing system according to claim 3 with which said electronic coupon distribution means is formed according to the rank concerned possible [ distribution ] in the electronic coupon according to said rank.

[Claim 5] The goods sales data processing system indicated by any 1 term from claim 2 in which said electronic coupon distribution means is formed possible [ distribution of said electronic coupon ] in the form of an electronic mail to claim 4.

[Claim 6] The goods sales data processing system indicated by any 1 term from claim 2 in which said electronic coupon distribution means is formed possible [ distribution of said electronic coupon ] in the form of the homepage of the Internet to claim 4.

[Claim 7] The goods sales data processing system indicated by any 1 term from claim 2 currently formed from IC card reader which can read the electronic coupon data of said distributed electronic coupon with which said storage is formed from an IC card, and said electronic coupon data reading means is memorized by the IC card to claim 6.

[Claim 8] The goods sales data processing system according to claim 7 with which said IC card is having the credit card made to serve a double purpose.

[Claim 9] The goods sales data processing system indicated by any 1 term from claim 2 currently formed from the scanner which can read the electronic coupon data with which said storage is formed from the sheet which can print the electronic coupon data of said distributed electronic coupon using a printer, and said electronic coupon data reading means is memorized by the sheet to claim 6.

[Claim 10] The goods sales data processing system according to claim 9 from which the electronic coupon data of said distributed electronic coupon are printed by said sheet with said scanner by the bar code or two dimensional code in which read is possible.

[Claim 11] The goods sales data processing system according to claim 10 currently formed from the scanner which reads a bar code in goods in case said scanner is said goods registration.

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[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention has a goods add function and an account processing facility, and relates to the goods sales data processing system with which the read and reflection accounting of creation, distribution, and a distribution electronic coupon can perform especially an electronic coupon.

[0002]

[Description of the Prior Art] A goods sales data processing system consists of two or more electronic cash registers, consists of what connected the high order machine (store controller) which carries out package management of each terminals (electronic cash register etc.) and each terminal possible [ data communication ], and is considered as the configuration which connected the high order machine and the host computer outside a store possible [ data communication ] further.

[0003] Anyway, accounting of the goods registration is performed and carried out at each terminal (electronic cash register). If a visitor submits a coupon in the case of this account, service of discount promised with the coupon concerned can be received.

[0004] Generally this coupon is printed and distributed at media, such as a newspaper and a journal, a throwaway subordinate to these, etc. Moreover, the content of a coupon has overwhelming text.

[0005]

[Problem(s) to be Solved by the Invention] By the way, it is cost high, and since there is time delay, for a visitor, it is hard to use in many cases, and the handling in outside the shelf-life is difficult for a store side, when media are minded. Moreover, the coupon cutoff condition from a newspaper is various, and when there are dirt and breakage further, operation efficiency falls, for example. Furthermore, it is difficult to publish the coupon which turned the individual exception of a regular customer and a general visitor.

[0006] The object of this invention is to offer a quick goods sales data processing system with the easy handling which faces the activation while being able to distribute by low cost.

[0007]

[Means for Solving the Problem] In the goods sales data processing system which has a goods add function and an account processing facility, invention of claim 1 inputs coupon data and is that creation of an electronic coupon is possible and the goods sales data processing system formed in the electronic coupon data concerned from the storage with which the distributed electronic coupon was memorized possible [ read ] and possible [ activation of said accounting in which reading electronic coupon data were made to reflect ] while forming the created electronic coupon possible [ distribution ] through the network.

[0008] In this invention, a coupon is electronically created based on the coupon data inputted in the system. The created electronic coupon is distributed through a network (distribution). It can distribute promptly in this way, and is low cost. Moreover, since an electronic coupon can come to hand promptly when a visitor memorizes an electronic coupon to a storage, availability increases. That is, if a storage is submitted in the case of a subsequent account, the accounting which the distributed electronic coupon data memorized there were read, and reflected the electronic coupon data concerned can receive. Since it is a storage uniform also for a store side, handling is easy and operation efficiency's can improve. Therefore, in a coupon, while being able to distribute by low cost, quick and the handling which faces the activation (accounting made to reflect) are easy.

[0009] Moreover, invention of claim 2 is set to the goods sales data processing system which has a goods add function and an account processing facility. A coupon data input means to input coupon data, and an electronic coupon creation means to create an electronic coupon using the inputted coupon data, The coupon file which memorizes the created electronic coupon, and an electronic coupon distribution means to distribute the electronic coupon memorized by this coupon file through a network, It is the goods sales data processing system which established an electronic coupon data reading means to read the electronic coupon data concerned in the storage with which the distributed electronic coupon was memorized, and a reflection processing means to perform said accounting in which the read electronic coupon data were made to reflect.

[0010] In this invention, if coupon data are inputted using a coupon data input means, an electronic coupon

creation means will create an electronic coupon using the inputted coupon data. then, there is an electronic coupon distribution means promptly — it is — the electronic coupon which waited for the command, was created and was memorized by the coupon file is distributed through a network. A visitor memorizes the distributed electronic coupon electronically or mechanically to a storage, for example.

[0011] The official in charge who received the storage from the visitor reads electronic coupon data in a storage using an electronic coupon data reading means. Then, a reflection processing means performs accounting in which the read electronic coupon data were made to reflect.

[0012] Therefore, since accounting which includes creation and distribution of an electronic coupon, read, discount, etc. further only by actuation of a coupon data input means and an electronic coupon data reading means is made from the first, it is easier handling for the same operation effectiveness as the case of invention of claim 1 to be done so.

[0013] Moreover, invention of claim 3 is a goods sales data processing system with which said electronic coupon creation means is formed possible [ creation of the electronic coupon according to rank ].

[0014] In this invention, if RANKUDE-TA is inputted, for example using a coupon data input means or a rank input means, an electronic coupon creation means will create the electronic coupon according to rank. When the electronic coupon distribution means is built by for example, the Internet homepage possible [ distribution ] in this way, a visitor can memorize the electronic coupon of the rank concerned to a storage by inputting a rank (for example, member number — password), and choosing the coupon of the rank concerned.

[0015] Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 2, individual and differentiation—employment which carries out coupon service according to rank to a regular customer further, for example can be performed.

[0016] Moreover, invention of claim 4 is a goods sales data processing system with which said electronic coupon distribution means is formed according to the rank concerned possible [ distribution ] in the electronic coupon according to said rank.

[0017] In this invention, an electronic coupon distribution means is for example, an electronic mail format, and can distribute the electronic coupon according to rank according to the rank concerned. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 3, the coupon according to rank can be distributed further more correctly and promptly.

[0018] Moreover, invention of claim 5 is a goods sales data processing system with which said electronic coupon distribution means is formed possible [ distribution of said electronic coupon ] in the form of an electronic mail.

[0019] In this invention, an electronic coupon distribution means is the form of an electronic mail, and distributes an electronic coupon. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention from claim 2 to claim 4, the coupon concerned can be further distributed to each addressing to a visitor at accuracy.

[0020] Moreover, invention of claim 6 is a goods sales data processing system with which said electronic coupon distribution means is formed possible [ distribution of said electronic coupon ] in the form of the homepage of the Internet.

[0021] In this invention, an electronic coupon distribution means is the form of the homepage of the Internet, and distributes an electronic coupon. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention from claim 2 to claim 4, the general visitor of twist a large number who needs a coupon further can be promptly supplied widely.

[0022] Moreover, invention of claim 7 is a goods sales data processing system currently formed from IC card reader which can read the electronic coupon data of said distributed electronic coupon with which said storage is formed from an IC card, and said electronic coupon data reading means is memorized by the IC card.

[0023] By this invention, the distributed electronic coupon is memorized at a distribution place to the storage which consists of an IC card. At a store, the electronic coupon data of the distributed electronic coupon memorized by the IC card submitted by the visitor are read using an electronic coupon data reading means.

[0024] Therefore, handling is more easy while being able to read electronic coupon data in claim 2 to quick and accuracy further in addition to the ability to do so the same operation effectiveness as the case of invention to claim 6.

[0025] Furthermore, invention of claim 8 is a goods sales data processing system with which said IC card is having the credit card made to serve a double purpose.

[0026] In this invention, in case a credit account is carried out, electronic coupon data can be simultaneously read in a credit card with credit data. Therefore, since the read operation to coupon reflection etc. can be swept away further in addition to the ability to do so the same operation effectiveness as the case of invention of claim 7, operation efficiency can be improved much more.

[0027] Furthermore, invention of claim 9 is a goods sales data processing system currently formed from the scanner which can read the electronic coupon data with which said storage is formed from the sheet which can print the electronic coupon data of said distributed electronic coupon using a printer, and said electronic coupon

data reading means is memorized by the sheet.

[0028] In this invention, a visitor should just do the printing storage of the distributed electronic coupon at a sheet using a printer. In a store side, electronic coupon data can be read using the scanner used, for example at the time of goods registration. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention from claim 2 to claim 6, the equipment economy by the side of a visitor and a store is still more advantageous, and one step of spread amplification is easy.

[0029] Furthermore, invention of claim 10 is a goods sales data processing system from which the electronic coupon data of said distributed electronic coupon are printed by said sheet with said scanner by the bar code or two dimensional code in which read is possible.

[0030] In this invention, since electronic coupon data are the bar code (or two dimensional code) in which read is possible with a scanner, the amount of data of a large quantity can be stored in a sheet as compared with the case of only the conventional printer graphic information. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 9, employment by the gestalt with a still more various electronic coupon can be performed.

[0031] Invention of claim 11 is a goods sales data processing system currently formed from the scanner which reads a bar code in goods further again, in case said scanner is said goods registration.

[0032] In this invention, electronic coupon data can be read in a sheet using the scanner concerned on the occasion of the accounting after the goods registration which used the scanner. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 10, accounting still easier [ handling ] and quick is made.

[0033]

[Embodiment of the Invention] Hereafter, the operation gestalt of this invention is explained to a detail with reference to a drawing. This goods sales-data processing system is considered as the configuration shown in drawing 1 , and inputs coupon data, and the electronic coupon data concerned are formed possible [ read ] and possible [ activation of the accounting in which reading electronic coupon data were made to reflect ] from that creation of an electronic coupon is possible and the storage with which the distributed electronic coupon was memorized while forming the electronic coupon which was created and was memorized by the coupon file (33CF) possible [ distribution ] through the network (3).

[0034] In drawing 1 , the electronic cash register 10 which forms each terminal CPU11, ROM12, RAM13, HDD 14, a scanner (SCN) 15, a keyboard (KB) 16, an indicator (IND) 17, a printer (PNT) 18, the interface (I/F) 19 for data telecommunication line (LAN) 1, the drawer 29 with automatic disconnection equipment (DRW) (Hard disk drive unit) And it has a goods add function, an account processing facility, a coupon reflection function, etc. including the reader writer (R/W) 20 of an IC card.

[0035] That is, based on the input of the goods information (bar code) using a scanner 15, goods registration (ST50 of drawing 5 ) can be carried out. If bundle actuation (YES of ST51) is performed by the key stroke, a control section (11 12) will compute the total amount of money (ST52).

[0036] In a cash account, accounting (ST66) including the calculation using the total amount of money and the deposit which were inputted and memorized (ST56, ST57 of drawing 6 ) of a change frame etc. is performed. Automatic disconnection of the drawer 29 is carried out, and the receipt printed by the printer 18 is also published.

[0037] In a credit account, accounting (ST66) is performed from the credit card (IC card) inserted in the reader writer 20 using the amount-of-money data read and memorized (ST53, ST54, ST55).

[0038] The scanner 15 is formed that reading of the two dimensional code (or a bar code is sufficient.) printed by goods to a bar code is possible, and the electronic coupon data of the two dimensional code (or a bar code is sufficient.) memorized by the sheet (for example, form) which forms a storage can be read here.

[0039] Moreover, the reader writer 20 is formed that the electronic coupon data memorized can be read [ that reading of amount-of-money data is possible and ] from the credit card (IC card) which makes a storage serve a double purpose.

[0040] Next, the store controller 30 has a package function manager, an electronic coupon distribution function, etc. of each terminal (10) including the interface (I/F) 38 CPU31, ROM32, RAM33, HDD34, a keyboard 36, an indicator 37, and for data telecommunication line (LAN) 1, and the interface (I/F) 39 for data telecommunication line (ISDN) 2, as shown in drawing 1 .

[0041] Moreover, the store controller 30 is connected to the Internet 3 through Web server 50. The personal computer 40 of a client side is connected to the Internet 3 through the data telecommunication line (ISDN) 2 and the provider server 60.

[0042] A browser, the e-mail software of this personal computer 40, etc. are install ending, including a control section (CPU, ROM, RAM) 41, a keyboard 42, an indicator 42, a printer 44, the reader writer 45 of an IC card, and the interface 49 for data telecommunication line (ISDN) 2.

[0043] While being able to read electronic coupon data to quick and accuracy with this operation gestalt, that

storage of an electronic coupon is possible because of explanation simplification facilities, and the storage which can be read An IC card with easier handling, Although it is advantageous, and one step of spread amplification forms from both sides with an easy sheet (form) and the equipment economy by the side of a visitor and a store is formed available selectively, it can carry out also by the system equipped only with the either, and the system equipped only with the another side.

[0044] In here, by the store controller 30 side, the demand directions (it is YES at ST10 of drawing 2 ) of the electronic coupon creation are carried out, and coupon data are inputted using a coupon data input means (keyboard 36) (YES of ST11). Not only text but the input of the image information using for example, built-in software is included in this input.

[0045] Then, an electronic coupon creation means (CPU31, ROM32) creates an electronic coupon (YES of ST12 and ST13). The created electronic coupon (electronic coupon data) is stored in common coupon file 33CF shown in drawing 1 (ST14), and is backed up by HDD34.

[0046] Moreover, an electronic coupon creation means (31 32) can create the electronic coupon according to rank (electronic coupon data) using RANKUDE-TA inputted using the coupon data and the rank input means (keyboard 36) which were inputted using the coupon data input means (36) (ST11-ST14).

[0047] The created electronic coupon according to rank is stored in coupon file 33CFR the rank exception shown in drawing 1 (ST14), and is backed up by HDD34. If it carries out, individual and differentiation-employment which carries out coupon service according to rank to a regular customer to write, for example can be performed.

[0048] If homepage establishment (distribution establishment) is chosen here at the store controller 30 side (YES of ST15), distribution data will be created an electronic coupon distribution data origination means (CPU31, ROM32) reading the electronic coupon memorized by that a coupon file (33CF, 33CFR) is searched (ST16).

[0049] In the case of the distribution data classified by rank (YES of ST17, ST18), distribution file 33TFR memorizes the rank exception shown in drawing 1 , and, in the case of general distribution data (NO of ST17, ST19), general distribution file 33TF memorizes.

[0050] In this way, after creation is completed (YES of ST20), an electronic coupon distribution means (CPU31, ROM32) transmits the electronic coupon concerned to Web server 50 (ST21).

[0051] Moreover, if electronic mail distribution is chosen (it is YES at ST22 of drawing 3 ), when an electronic coupon mail distribution list creation means (CPU31, ROM32) has the directions according to rank (YES of ST23), it will search distribution file 33TFR a rank exception (ST24), and will create the distribution list classified by rank (ST25, ST26).

[0052] When there are no directions according to rank (NO of ST23), general distribution file 33TF is searched (ST27), and a general distribution list is created (ST28, ST29).

[0053] If creation of an electronic coupon is completed and there is a distribution activation command in this way (YES of ST30), an electronic coupon distribution means (CPU31, ROM32) will transmit to Web server 50 (ST21). That is, an electronic coupon is distributed to each by E-mail.

[0054] In addition, a Web server may be constituted in one with the store controller 30.

[0055] In a client (personal computer 40), when there is an electronic mail (it is YES at ST70 of drawing 7 ), this is opened (ST71). If there is an electronic coupon (YES of ST72), write-in storage will be carried out as occasion demands at an IC card (credit card — storage) using the reader writer 45 (ST73, ST74). Or it prints in a form (storage) using a printer 44 (ST75, ST76). Thereby, the electronic coupon according to self-addressed rank can come to hand correctly and promptly.

[0056] Moreover, when the homepage of the store concerned is opened (they are YES and ST78 of drawing 8 at ST77 of drawing 7 ) and there is an electronic coupon (YES of ST79), an electronic coupon can be acquired by using write-in storage or a printer 44 for an IC card (credit card — storage) using the reader writer 45, and printing in a form (storage) (ST82, ST83).

[0057] However, in order to acquire the self-addressed exceptional (rank) electronic coupon which makes the self-rank input to the rank input column requirements (YES of ST80) (ST82), a self rank (the member number or credit card number given from the store concerned with this operation gestalt) must be keyed (YES of ST81).

[0058] Now, when the official in charge (cashier) who was the electronic cash register 10 at the store, and received the storage slack IC card when a cash account (it is YES at ST56 of drawing 6 ) was carried out sets the card concerned to an electronic coupon data reading means slack IC card reader (reader writer 20) (YES of ST58), electronic coupon data are read and he is stored temporarily (YES of ST59, ST60).

[0059] Then, the inquiry means (CPU11, ROM12) of the electronic cash register 10 concerned carries out an inquiry to the store controller 30 about a shelf-life etc. (ST63).

[0060] In the store controller 30 side which received this (it is YES at ST40 of drawing 4 ), a coupon file (33CF, 33CFR) is searched (ST41), and it distinguishes whether it is effective about the shelf-life of the electronic coupon concerned etc. (ST42). A response means (CPU31, ROM32) carries out an effective response (ST43) or an invalid response (ST44) to the electronic cash register 10 concerned.



[0061] the electronic cash register 10 concerned — an effective response — receiving (it being YES at ST64 of drawing 6 ) — a reflection processing means (CPU11, ROM12) performs accounting (ST65) in which the content of coupon service of the electronic coupon concerned was made to reflect. When an invalid response is received (NO of ST64), it is accounting (ST66) without coupon service.

[0062] The same is said of the case (YES of ST53) of a credit account (YES, ST60, ST63–ST65 of ST54, ST55, and ST59).

[0063] Moreover, when the sheet (form — storage) which printed the coupon is submitted, the scanning input (YES of ST58) of the electronic coupon data is carried out using a scanner (electronic coupon data reading means) 15. Also in this case, coupon service can be received (ST62, ST63–ST65).

[0064] It is uniform, since it is a storage (coupon) without dirt etc., a reading activity is easy, and operation effectiveness improves. Moreover, the coupon service classified by rank can also be processed smoothly, without giving other visitors distrust.

[0065] While a deer is carried out, and being able to distribute the electronic coupon created using input coupon data through a network (2, 3, 2) according to this operation gestalt From the storage with which the distributed electronic coupon was memorized, since it is formed possible [ read ] and possible [ activation of the accounting (ST65 of drawing 6 ) in which reading electronic coupon data were made to reflect ], the electronic coupon data concerned While being able to distribute a coupon by quick and large low cost, the handling which faces the activation (accounting made to reflect) is easy.

[0066] moreover A coupon data input means (36), an electronic coupon creation means (31 32), a coupon file (33CF, 33CFR), an electronic coupon distribution means (31 32), an electronic coupon data reading means (15 20) to read the electronic coupon data concerned in a storage, and a reflection processing means (11 12) Since it reads with each electronic cash register 10 and is formed in reflection account place Michiyoshi ability while preparing and being formed possible [ creation and distribution of an electronic coupon ] by the store controller 30 side Accounting which includes coupon creation, distribution, reading, discount of a storage coupon, etc. from a coupon data input means (36) and a storage in electronic coupon reading only by operating an electronic coupon data reading means (15 or 20) is made to electronic coupon creation. Handling is easier.

[0067] Moreover, since an electronic coupon creation means (31 32) can create the electronic coupon according to rank, individual employment of the service according to rank to a regular customer etc. can be performed, for example.

[0068] moreover — since an electronic coupon distribution means (31 32) can distribute the electronic coupon according to rank according to the rank concerned — distribution of the coupon according to rank — much more — accuracy — and it can carry out promptly.

[0069] Moreover, since the coupon file is formed from coupon file 33CFR the common coupon file 33CF and rank exception, data processing is easy and can decrease mistake creation ultimately.

[0070] moreover — being general since the electronic coupon distribution data origination means (31 32) is formed with what memorizes the distribution data classified by rank created searching a coupon file (33CF, 33CFR) to distribution file 33TFR a rank exception, and memorizes the case of general distribution data to general distribution file 33TF — the confusion according to rank — there is nothing — always — accuracy — and it can create and distribute promptly.

[0071] moreover — since the electronic coupon mail distribution list creation means (31 32) is formed with what creates the distribution list classified by rank, and a general distribution list in electronic mail distribution — the nearby accuracy from this point — and electronic mail distribution can be carried out promptly.

[0072] Moreover, the distinction means (CPU31, ROM32) and the response means (31 32) of distinguishing whether it being effective about the shelf-life of the electronic coupon which forms an inquiry means (11 12) in the electronic cash register 10 side, and is built over an inquiry at the store controller 30 side etc. are established. Since the reflection processing means (11 12) is formed possible [ activation of the accounting (ST65) in which the content of coupon service of the electronic coupon concerned was made to reflect ] when the electronic cash register 10 concerned receives an effective response While being able to sweep away the check of the shelf-life by the cashier etc., employment of exact coupon service can be performed.

[0073] Moreover, since the electronic coupon distribution means (31 32) is formed possible [ distribution of an electronic coupon ] in the form of an electronic mail, the coupon concerned can be distributed to each visitor at accuracy.

[0074] Moreover, since the electronic coupon distribution means (31 32) is formed possible [ distribution of an electronic coupon ] in the form of the homepage of the Internet 3, the visitor of twist a large number who needs a coupon can be promptly supplied widely.

[0075] Moreover, since a storage is formed from an IC card and the electronic coupon data reading means is formed from IC card reader (20), handling is more easy while being able to read electronic coupon data to quick and accuracy.

[0076] Furthermore, since the IC card is having the credit card made to serve a double purpose and the read

operation to coupon reflection etc. can be swept away, operation efficiency can be improved much more.

[0077] Furthermore, since a storage is formed from the sheet (form) which can print the electronic coupon data of a distributed electronic coupon using a printer 44 and the electronic coupon data reading means is formed from the scanner 15, the equipment economy by the side of a visitor and a store is advantageous, and spread amplification is easier.

[0078] Furthermore, employment by the gestalt with various since it shall be printed by the two dimensional code (or you may be a bar code.) in which reading in a scanner (15) is possible in the electronic coupon data of a distributed electronic coupon at sheets (form etc.) including image data in an electronic coupon etc. can be performed.

[0079] Since an electronic coupon can be acquired with the personal computer 40 with remarkable and spread and easy handling further again, the handling of a coupon (storage) is easy also for a visitor, and since there is neither dirt nor breakage also for a store side, handling nature and operation efficiency improve.

[0080] Since it is formed further again from the scanner 15 which reads a bar code in goods in case the scanner for electronic coupon reading is goods registration, accounting easier [ handling ] and quick is made.

[0081] Since an electronic coupon common to each store can be created and distributed at one store (30) further again, it can distribute promptly in a wide area even in a large-scale chain store.

[0082]

[Effect of the Invention] Since it is the goods sales data processing system formed possible [ activation of the accounting in which inputted coupon data, formed the electronic coupon possible / distribution / through creation and a network, and read the electronic coupon data concerned in the storage with which the distributed electronic coupon was memorized, and reading electronic coupon data were made to reflect ] according to invention of claim 1, while being able to distribute by low cost, quick and the handling which faces the activation (accounting made to reflect) are easy in an electronic coupon. There is a lot of coupon distribution effectiveness.

[0083] Moreover, according to invention of claim 2, a coupon data input means, an electronic coupon creation means, a coupon file, an electronic coupon distribution means, an electronic coupon data reading means, and a reflection processing means are established. Since it is formed possible [ creation and distribution of an electronic coupon ], and an electronic coupon is read in a storage and it is formed in reflection account place Michiyoshi ability Since accounting which includes coupon creation, distribution, storage coupon read, discount, etc. only by doing further not only the thing for which the same effectiveness as the case of invention of claim 1 can be done so but also actuation of a coupon data input means and an electronic coupon data reading means is made, handling is easier.

[0084] Moreover, according to invention of claim 3, since the electronic coupon creation means is formed possible [ creation of the electronic coupon according to rank ], in addition to the ability to do so the same effectiveness as the case of invention of claim 2, individual and differentiation-employment of carrying out coupon service according to rank to a regular customer further, for example can be performed.

[0085] Moreover, according to invention of claim 4, since the electronic coupon distribution means is formed according to the rank concerned possible [ distribution ] in the electronic coupon according to rank, in addition to the ability to do so the same effectiveness as the case of invention of claim 3, the coupon according to rank can be distributed further more correctly and promptly.

[0086] Moreover, according to invention of claim 5, since the electronic coupon distribution means is formed possible [ distribution of an electronic coupon ] in the form of an electronic mail, in addition to the ability to do so the same effectiveness as the case of invention from claim 2 to claim 4, the coupon concerned can be further distributed to each addressing to a visitor at accuracy.

[0087] Moreover, according to invention of claim 6, since the electronic coupon distribution means is formed possible [ distribution of an electronic coupon ] in the form of the homepage of the Internet, in addition to the ability to do so the same effectiveness as the case of invention from claim 2 to claim 4, the general visitor of twist a large number who needs a coupon further can be promptly supplied widely.

[0088] Moreover, since it is formed from IC card reader which can read the electronic coupon data of the distributed electronic coupon with which a storage is formed from an IC card, and the electronic coupon data reading means is memorized by the IC card according to invention of claim 7, handling is more easy while being able to read electronic coupon data in claim 2 to quick and accuracy further in addition to the ability to do so the same effectiveness as the case of invention to claim 6.

[0089] Furthermore, according to invention of claim 8, since the IC card is having the credit card made to serve a double purpose and the read operation to coupon reflection etc. can be swept away further in addition to the ability to do so the same effectiveness as the case of invention of claim 7, operation efficiency can be improved much more.

[0090] Furthermore, according to invention of claim 9, since it is formed from the sheet which can print a distributed electronic coupon and the storage is formed using the printer from the scanner [ an electronic



coupon data reading means ] which can read a sheet to electronic coupon data, in addition to the ability to do so the same effectiveness as the case of invention from claim 2 to claim 6, the equipment economy by the side of a visitor and a store is still more advantageous, and one step of spread amplification is easy.

[0091] Furthermore, according to invention of claim 10, employment by various gestalten, like since it shall be printed by the bar code or the two dimensional code at the sheet, in addition to the ability to do so the same effectiveness as the case of invention of claim 9, electronic coupon data include image data in an electronic coupon further can be performed.

[0092] further -- again -- invention of claim 11 -- getting twisted -- since it is formed from the scanner which reads a bar code in goods in case a scanner is goods registration, in addition to the ability to do so the same effectiveness as the case of invention of claim 10, accounting still easier [ handling ] and quick is made.

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[Translation done.]

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TECHNICAL FIELD

[Field of the Invention] This invention has a goods add function and an account processing facility, and relates to the goods sales data processing system with which the read and reflection accounting of creation, distribution, and a distribution electronic coupon can perform especially an electronic coupon.

[Translation done.]

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PRIOR ART

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[Description of the Prior Art] A goods sales data processing system consists of two or more electronic cash registers, consists of what connected the high order machine (store controller) which carries out package management of each terminals (electronic cash register etc.) and each terminal possible [ data communication ], and is considered as the configuration which connected the high order machine and the host computer outside a store possible [ data communication ] further.

[0003] Anyway, accounting of the goods registration is performed and carried out at each terminal (electronic cash register). If a visitor submits a coupon in the case of this account, service of discount promised with the coupon concerned can be received.

[0004] Generally this coupon is printed and distributed at media, such as a newspaper and a journal, a throwaway subordinate to these, etc. Moreover, the content of a coupon has overwhelming text.

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EFFECT OF THE INVENTION

[Effect of the Invention] Since it is the goods sales data processing system formed possible [ activation of the accounting in which inputted coupon data, formed the electronic coupon possible / distribution / through creation and a network, and read the electronic coupon data concerned in the storage with which the distributed electronic coupon was memorized, and reading electronic coupon data were made to reflect ] according to invention of claim 1, while being able to distribute by low cost, quick and the handling which faces the activation (accounting made to reflect) are easy in an electronic coupon. There is a lot of coupon distribution effectiveness.

[0083] Moreover, according to invention of claim 2, a coupon data input means, an electronic coupon creation means, a coupon file, an electronic coupon distribution means, an electronic coupon data reading means, and a reflection processing means are established. Since it is formed possible [ creation and distribution of an electronic coupon ], and an electronic coupon is read in a storage and it is formed in reflection account place Michiyoshi ability Since accounting which includes coupon creation, distribution, storage coupon read, discount, etc. only by doing further not only the thing for which the same effectiveness as the case of invention of claim 1 can be done so but also actuation of a coupon data input means and an electronic coupon data reading means is made, handling is easier.

[0084] Moreover, according to invention of claim 3, since the electronic coupon creation means is formed possible [ creation of the electronic coupon according to rank ], in addition to the ability to do so the same effectiveness as the case of invention of claim 2, individual and differentiation—employment of carrying out coupon service according to rank to a regular customer further, for example can be performed.

[0085] Moreover, according to invention of claim 4, since the electronic coupon distribution means is formed according to the rank concerned possible [ distribution ] in the electronic coupon according to rank, in addition to the ability to do so the same effectiveness as the case of invention of claim 3, the coupon according to rank can be distributed further more correctly and promptly.

[0086] Moreover, according to invention of claim 5, since the electronic coupon distribution means is formed possible [ distribution of an electronic coupon ] in the form of an electronic mail, in addition to the ability to do so the same effectiveness as the case of invention from claim 2 to claim 4, the coupon concerned can be further distributed to each addressing to a visitor at accuracy.

[0087] Moreover, according to invention of claim 6, since the electronic coupon distribution means is formed possible [ distribution of an electronic coupon ] in the form of the homepage of the Internet, in addition to the ability to do so the same effectiveness as the case of invention from claim 2 to claim 4, the general visitor of twist a large number who needs a coupon further can be promptly supplied widely.

[0088] Moreover, since it is formed from IC card reader which can read the electronic coupon data of the distributed electronic coupon with which a storage is formed from an IC card, and the electronic coupon data reading means is memorized by the IC card according to invention of claim 7, handling is more easy while being able to read electronic coupon data in claim 2 to quick and accuracy further in addition to the ability to do so the same effectiveness as the case of invention to claim 6.

[0089] Furthermore, according to invention of claim 8, since the IC card is having the credit card made to serve a double purpose and the read operation to coupon reflection etc. can be swept away further in addition to the ability to do so the same effectiveness as the case of invention of claim 7, operation efficiency can be improved much more.

[0090] Furthermore, according to invention of claim 9, since it is formed from the sheet which can print a distributed electronic coupon and the storage is formed using the printer from the scanner [ an electronic coupon data reading means ] which can read a sheet to electronic coupon data, in addition to the ability to do so the same effectiveness as the case of invention from claim 2 to claim 6, the equipment economy by the side of a visitor and a store is still more advantageous, and one step of spread amplification is easy.

[0091] Furthermore, according to invention of claim 10, employment by various gestalten, like since it shall be printed by the bar code or the two dimensional code at the sheet, in addition to the ability to do so the same effectiveness as the case of invention of claim 9, electronic coupon data include image data in an electronic

coupon further can be performed.  
[0092] further -- again -- invention of claim 11 -- getting twisted -- since it is formed from the scanner which reads a bar code in goods in case a scanner is goods registration, in addition to the ability to do so the same effectiveness as the case of invention of claim 10, accounting still easier [ handling ] and quick is made.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] By the way, it is cost high, and since there is time delay, for a visitor, it is hard to use in many cases, and the handling in outside the shelf-life is difficult for a store side, when media are minded. Moreover, the coupon cutoff condition from a newspaper is various, and when there are dirt and breakage further, operation efficiency falls, for example. Furthermore, it is difficult to publish the coupon which turned the individual exception of a regular customer and a general visitor.

[0006] The object of this invention is to offer a quick goods sales data processing system with the easy handling which faces the activation while being able to distribute by low cost.

[Translation done.]



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MEANS

[Means for Solving the Problem] In the goods sales data processing system which has a goods add function and an account processing facility, invention of claim 1 inputs coupon data and is that creation of an electronic coupon is possible and the goods sales data processing system formed in the electronic coupon data concerned from the storage with which the distributed electronic coupon was memorized possible [ read ] and possible [ activation of said accounting in which reading electronic coupon data were made to reflect ] while forming the created electronic coupon possible [ distribution ] through the network.

[0008] In this invention, a coupon is electronically created based on the coupon data inputted in the system. The created electronic coupon is distributed through a network (distribution). It can distribute promptly in this way, and is low cost. Moreover, since an electronic coupon can come to hand promptly when a visitor memorizes an electronic coupon to a storage, availability increases. That is, if a storage is submitted in the case of a subsequent account, the accounting which the distributed electronic coupon data memorized there were read, and reflected the electronic coupon data concerned can receive. Since it is a storage uniform also for a store side, handling is easy and operation efficiency's can improve. Therefore, in a coupon, while being able to distribute by low cost, quick and the handling which faces the activation (accounting made to reflect) are easy.

[0009] Moreover, invention of claim 2 is set to the goods sales data processing system which has a goods add function and an account processing facility. A coupon data input means to input coupon data, and an electronic coupon creation means to create an electronic coupon using the inputted coupon data, The coupon file which memorizes the created electronic coupon, and an electronic coupon distribution means to distribute the electronic coupon memorized by this coupon file through a network, It is the goods sales data processing system which established an electronic coupon data reading means to read the electronic coupon data concerned in the storage with which the distributed electronic coupon was memorized, and a reflection processing means to perform said accounting in which the read electronic coupon data were made to reflect.

[0010] In this invention, if coupon data are inputted using a coupon data input means, an electronic coupon creation means will create an electronic coupon using the inputted coupon data. then, there is an electronic coupon distribution means promptly — it is — the electronic coupon which waited for the command, was created and was memorized by the coupon file is distributed through a network. A visitor memorizes the distributed electronic coupon electronically or mechanically to a storage, for example.

[0011] The official in charge who received the storage from the visitor reads electronic coupon data in a storage using an electronic coupon data reading means. Then, a reflection processing means performs accounting in which the read electronic coupon data were made to reflect.

[0012] Therefore, since accounting which includes creation and distribution of an electronic coupon, read, discount, etc. further only by actuation of a coupon data input means and an electronic coupon data reading means is made from the first, it is easier handling for the same operation effectiveness as the case of invention of claim 1 to be done so.

[0013] Moreover, invention of claim 3 is a goods sales data processing system with which said electronic coupon creation means is formed possible [ creation of the electronic coupon according to rank ].

[0014] In this invention, if RANKUDE-TA is inputted, for example using a coupon data input means or a rank input means, an electronic coupon creation means will create the electronic coupon according to rank. When the electronic coupon distribution means is built by for example, the Internet homepage possible [ distribution ] in this way, a visitor can memorize the electronic coupon of the rank concerned to a storage by inputting a rank (for example, member number — password), and choosing the coupon of the rank concerned.

[0015] Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 2, individual and differentiation-employment which carries out coupon service according to rank to a regular customer further, for example can be performed.

[0016] Moreover, invention of claim 4 is a goods sales data processing system with which said electronic coupon distribution means is formed according to the rank concerned possible [ distribution ] in the electronic coupon according to said rank.

[0017] In this invention, an electronic coupon distribution means is for example, an electronic mail format, and

can distribute the electronic coupon according to rank according to the rank concerned. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 3, the coupon according to rank can be distributed further more correctly and promptly.

[0018] Moreover, invention of claim 5 is a goods sales data processing system with which said electronic coupon distribution means is formed possible [ distribution of said electronic coupon ] in the form of an electronic mail.

[0019] In this invention, an electronic coupon distribution means is the form of an electronic mail, and distributes an electronic coupon. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention from claim 2 to claim 4, the coupon concerned can be further distributed to each addressing to a visitor at accuracy.

[0020] Moreover, invention of claim 6 is a goods sales data processing system with which said electronic coupon distribution means is formed possible [ distribution of said electronic coupon ] in the form of the homepage of the Internet.

[0021] In this invention, an electronic coupon distribution means is the form of the homepage of the Internet, and distributes an electronic coupon. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention from claim 2 to claim 4, the general visitor of twist a large number who needs a coupon further can be promptly supplied widely.

[0022] Moreover, invention of claim 7 is a goods sales data processing system currently formed from IC card reader which can read the electronic coupon data of said distributed electronic coupon with which said storage is formed from an IC card, and said electronic coupon data reading means is memorized by the IC card.

[0023] By this invention, the distributed electronic coupon is memorized at a distribution place to the storage which consists of an IC card. At a store, the electronic coupon data of the distributed electronic coupon memorized by the IC card submitted by the visitor are read using an electronic coupon data reading means.

[0024] Therefore, handling is more easy while being able to read electronic coupon data in claim 2 to quick and accuracy further in addition to the ability to do so the same operation effectiveness as the case of invention to claim 6.

[0025] Furthermore, invention of claim 8 is a goods sales data processing system with which said IC card is having the credit card made to serve a double purpose.

[0026] In this invention, in case a credit account is carried out, electronic coupon data can be simultaneously read in a credit card with credit data. Therefore, since the read operation to coupon reflection etc. can be swept away further in addition to the ability to do so the same operation effectiveness as the case of invention of claim 7, operation efficiency can be improved much more.

[0027] Furthermore, invention of claim 9 is a goods sales data processing system currently formed from the scanner which can read the electronic coupon data with which said storage is formed from the sheet which can print the electronic coupon data of said distributed electronic coupon using a printer, and said electronic coupon data reading means is memorized by the sheet.

[0028] In this invention, a visitor should just do the printing storage of the distributed electronic coupon at a sheet using a printer. In a store side, electronic coupon data can be read using the scanner used, for example at the time of goods registration. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention from claim 2 to claim 6, the equipment economy by the side of a visitor and a store is still more advantageous, and one step of spread amplification is easy.

[0029] Furthermore, invention of claim 10 is a goods sales data processing system from which the electronic coupon data of said distributed electronic coupon are printed by said sheet with said scanner by the bar code or two dimensional code in which read is possible.

[0030] In this invention, since electronic coupon data are the bar code (or two dimensional code) in which read is possible with a scanner, the amount of data of a large quantity can be stored in a sheet as compared with the case of only the conventional printer graphic information. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 9, employment by the gestalt with a still more various electronic coupon can be performed.

[0031] Invention of claim 11 is a goods sales data processing system currently formed from the scanner which reads a bar code in goods further again, in case said scanner is said goods registration.

[0032] In this invention, electronic coupon data can be read in a sheet using the scanner concerned on the occasion of the accounting after the goods registration which used the scanner. Therefore, in addition to the ability to do so the same operation effectiveness as the case of invention of claim 10, accounting still easier [ handling ] and quick is made.

[0033]

[Embodiment of the Invention] Hereafter, the operation gestalt of this invention is explained to a detail with reference to a drawing. This goods sales-data processing system is considered as the configuration shown in drawing 1 , and inputs coupon data, and the electronic coupon data concerned are formed possible [ read ] and possible [ activation of the accounting in which reading electronic coupon data were made to reflect ] from that

creation of an electronic coupon is possible and the storage with which the distributed electronic coupon was memorized while forming the electronic coupon which was created and was memorized by the coupon file (33CF) possible [ distribution ] through the network (3).

[0034] In drawing 1 , the electronic cash register 10 which forms each terminal CPU11, ROM12, RAM13, HDD 14, a scanner (SCN) 15, a keyboard (KB) 16, an indicator (IND) 17, a printer (PNT) 18, the interface (I/F) 19 for data telecommunication line (LAN) 1, the drawer 29 with automatic disconnection equipment (DRW) (Hard disk drive unit) And it has a goods add function, an account processing facility, a coupon reflection function, etc. including the reader writer (R/W) 20 of an IC card.

[0035] That is, based on the input of the goods information (bar code) using a scanner 15, goods registration (ST50 of drawing 5 ) can be carried out. If bundle actuation (YES of ST51) is performed by the key stroke, a control section (11 12) will compute the total amount of money (ST52).

[0036] In a cash account, accounting (ST66) including the calculation using the total amount of money and the deposit which were inputted and memorized (ST56, ST57 of drawing 6 ) of a change frame etc. is performed. Automatic disconnection of the drawer 29 is carried out, and the receipt printed by the printer 18 is also published.

[0037] In a credit account, accounting (ST66) is performed from the credit card (IC card) inserted in the reader writer 20 using the amount-of-money data read and memorized (ST53, ST54, ST55).

[0038] The scanner 15 is formed that reading of the two dimensional code (or a bar code is sufficient.) printed by goods to a bar code is possible, and the electronic coupon data of the two dimensional code (or a bar code is sufficient.) memorized by the sheet (for example, form) which forms a storage can be read here.

[0039] Moreover, the reader writer 20 is formed that the electronic coupon data memorized can be read [ that reading of amount-of-money data is possible and ] from the credit card (IC card) which makes a storage serve a double purpose.

[0040] Next, the store controller 30 has a package function manager, an electronic coupon distribution function, etc. of each terminal (10) including the interface (I/F) 38 CPU31, ROM32, RAM33, HDD34, a keyboard 36, an indicator 37, and for data telecommunication line (LAN) 1, and the interface (I/F) 39 for data telecommunication line (ISDN) 2, as shown in drawing 1 .

[0041] Moreover, the store controller 30 is connected to the Internet 3 through Web server 50. The personal computer 40 of a client side is connected to the Internet 3 through the data telecommunication line (ISDN) 2 and the provider server 60.

[0042] A browser, the e-mail software of this personal computer 40, etc. are install ending, including a control section (CPU, ROM, RAM) 41, a keyboard 42, an indicator 42, a printer 44, the reader writer 45 of an IC card, and the interface 49 for data telecommunication line (ISDN) 2.

[0043] While being able to read electronic coupon data to quick and accuracy with this operation gestalt, that storage of an electronic coupon is possible because of explanation simplification facilities, and the storage which can be read An IC card with easier handling, Although it is advantageous, and one step of spread amplification forms from both sides with an easy sheet (form) and the equipment economy by the side of a visitor and a store is formed available selectively, it can carry out also by the system equipped only with the either, and the system equipped only with the another side.

[0044] In here, by the store controller 30 side, the demand directions (it is YES at ST10 of drawing 2 ) of the electronic coupon creation are carried out, and coupon data are inputted using a coupon data input means (keyboard 36) (YES of ST11). Not only text but the input of the image information using for example, built-in software is included in this input.

[0045] Then, an electronic coupon creation means (CPU31, ROM32) creates an electronic coupon (YES of ST12 and ST13). The created electronic coupon (electronic coupon data) is stored in common coupon file 33CF shown in drawing 1 (ST14), and is backed up by HDD34.

[0046] Moreover, an electronic coupon creation means (31 32) can create the electronic coupon according to rank (electronic coupon data) using RANKUDE-TA inputted using the coupon data and the rank input means (keyboard 36) which were inputted using the coupon data input means (36) (ST11-ST14).

[0047] The created electronic coupon according to rank is stored in coupon file 33CFR the rank exception shown in drawing 1 (ST14), and is backed up by HDD34. If it carries out, individual and differentiation-employment which carries out coupon service according to rank to a regular customer to write, for example can be performed.

[0048] If homepage establishment (distribution establishment) is chosen here at the store controller 30 side (YES of ST15), distribution data will be created an electronic coupon distribution data origination means (CPU31, ROM32) reading the electronic coupon memorized by that a coupon file (33CF, 33CFR) is searched (ST16).

[0049] In the case of the distribution data classified by rank (YES of ST17, ST18), distribution file 33TFR memorizes the rank exception shown in drawing 1 , and, in the case of general distribution data (NO of ST17, ST19), general distribution file 33TF memorizes.

[0050] In this way, after creation is completed (YES of ST20), an electronic coupon distribution means (CPU31, ROM32) transmits the electronic coupon concerned to Web server 50 (ST21).

[0051] Moreover, if electronic mail distribution is chosen (it is YES at ST22 of drawing 3 ), when an electronic coupon mail distribution list creation means (CPU31, ROM32) has the directions according to rank (YES of ST23), it will search distribution file 33TFR a rank exception (ST24), and will create the distribution list classified by rank (ST25, ST26).

[0052] When there are no directions according to rank (NO of ST23), general distribution file 33TF is searched (ST27), and a general distribution list is created (ST28, ST29).

[0053] If creation of an electronic coupon is completed and there is a distribution activation command in this way (YES of ST30), an electronic coupon distribution means (CPU31, ROM32) will transmit to Web server 50 (ST21). That is, an electronic coupon is distributed to each by E-mail.

[0054] In addition, a Web server may be constituted in one with the store controller 30.

[0055] In a client (personal computer 40), when there is an electronic mail (it is YES at ST70 of drawing 7 ), this is opened (ST71). If there is an electronic coupon (YES of ST72), write-in storage will be carried out as occasion demands at an IC card (credit card — storage) using the reader writer 45 (ST73, ST74). Or it prints in a form (storage) using a printer 44 (ST75, ST76). Thereby, the electronic coupon according to self-addressed rank can come to hand correctly and promptly.

[0056] Moreover, when the homepage of the store concerned is opened (they are YES and ST78 of drawing 8 at ST77 of drawing 7 ) and there is an electronic coupon (YES of ST79), an electronic coupon can be acquired by using write-in storage or a printer 44 for an IC card (credit card — storage) using the reader writer 45, and printing in a form (storage) (ST82, ST83).

[0057] However, in order to acquire the self-addressed exceptional (rank) electronic coupon which makes the self-rank input to the rank input column requirements (YES of ST80) (ST82), a self rank (the member number or credit card number given from the store concerned with this operation gestalt) must be keyed (YES of ST81).

[0058] Now, when the official in charge (cashier) who was the electronic cash register 10 at the store, and received the storage slack IC card when a cash account (it is YES at ST56 of drawing 6 ) was carried out sets the card concerned to an electronic coupon data reading means slack IC card reader (reader writer 20) (YES of ST58), electronic coupon data are read and he is stored temporarily (YES of ST59, ST60).

[0059] Then, the inquiry means (CPU11, ROM12) of the electronic cash register 10 concerned carries out an inquiry to the store controller 30 about a shelf-life etc. (ST63).

[0060] In the store controller 30 side which received this (it is YES at ST40 of drawing 4 ), a coupon file (33CF, 33CFR) is searched (ST41), and it distinguishes whether it is effective about the shelf-life of the electronic coupon concerned etc. (ST42). A response means (CPU31, ROM32) carries out an effective response (ST43) or an invalid response (ST44) to the electronic cash register 10 concerned.

[0061] the electronic cash register 10 concerned — an effective response — receiving (it being YES at ST64 of drawing 6 ) — a reflection processing means (CPU11, ROM12) performs accounting (ST65) in which the content of coupon service of the electronic coupon concerned was made to reflect. When an invalid response is received (NO of ST64), it is accounting (ST66) without coupon service.

[0062] The same is said of the case (YES of ST53) of a credit account (YES, ST60, ST63–ST65 of ST54, ST55, and ST59).

[0063] Moreover, it is a scanner when the sheet (form — storage) which printed the coupon is submitted.

[Translation done.]

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing the operation gestalt of this invention.

[Drawing 2] Similarly, it is a flow chart (1) for explaining the actuation by the side of a store controller.

[Drawing 3] Similarly, it is a flow chart (2) for explaining the actuation by the side of a store controller.

[Drawing 4] Similarly, it is a flow chart (3) for explaining the actuation by the side of a store controller.

[Drawing 5] Similarly, it is a flow chart (1) for explaining the actuation by the side of an electronic cash register.

[Drawing 6] Similarly, it is a flow chart (2) for explaining the actuation by the side of an electronic cash register.

[Drawing 7] Similarly, it is a flow chart (1) for explaining the actuation by the side of a client (personal computer).

[Drawing 8] Similarly, it is a flow chart (2) for explaining the actuation by the side of a client (personal computer).

[Description of Notations]

2 Data Telecommunication Line (Network)

3 Internet (Network)

10 Electronic Cash Register (Goods Sales Data Processing System)

11 CPU (Reflection Processing Means)

12 ROM (Reflection Processing Means)

13 RAM

14 HDD

15 Scanner (Electronic Coupon Data Reading Means)

16 Keyboard

20 Reader Writer (IC Card Reader — Electronic Coupon Data Reading Means)

30 Store Controller (Goods Sales Data Processing System)

31 CPU (Electronic Coupon Creation Means, Electronic Coupon Distribution Means)

32 ROM (Electronic Coupon Creation Means, Electronic Coupon Distribution Means)

33 RAM

33CF Common coupon file (coupon file)

33CFR(s) General distribution file

33TF Coupon file classified by rank (coupon file)

33TFR(s) Distribution file classified by rank

34 HDD

36 Keyboard (Coupon Data Input Force Means)

37 Drop

40 Personal Computer

41 Control Section

42 Keyboard

43 Drop

44 Printer

45 Reader Writer

50 Web Server

60 Provider Server

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[Translation done.]

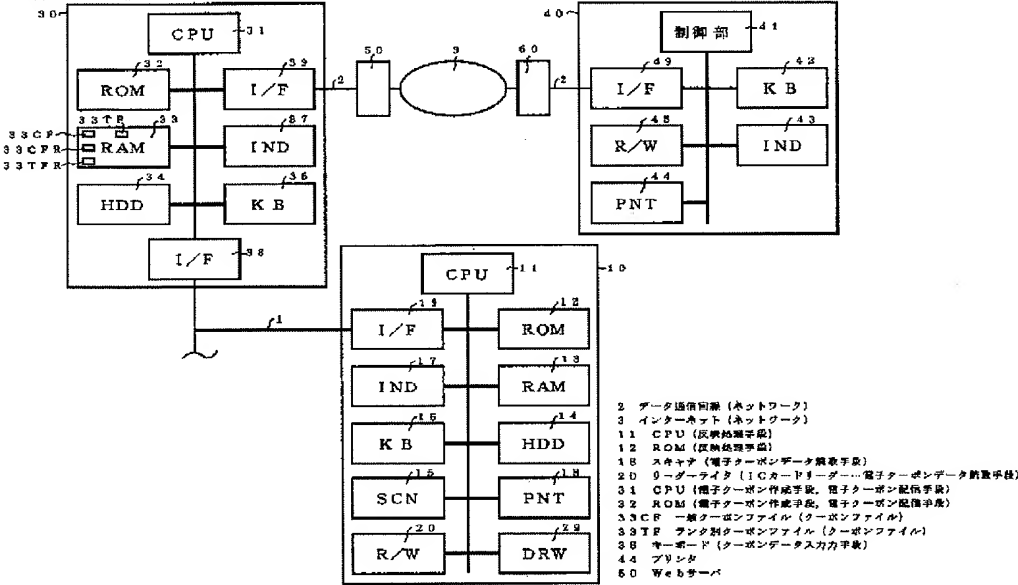
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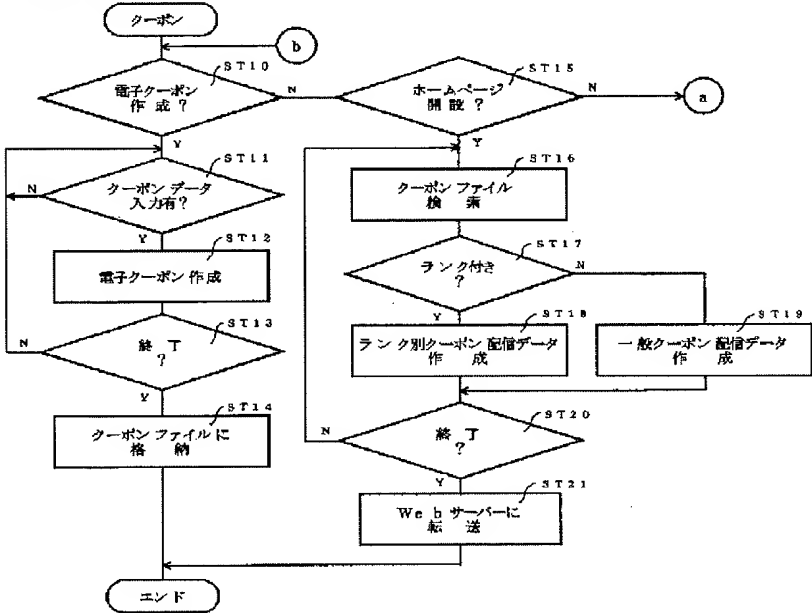
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DRAWINGS

[Drawing 1]

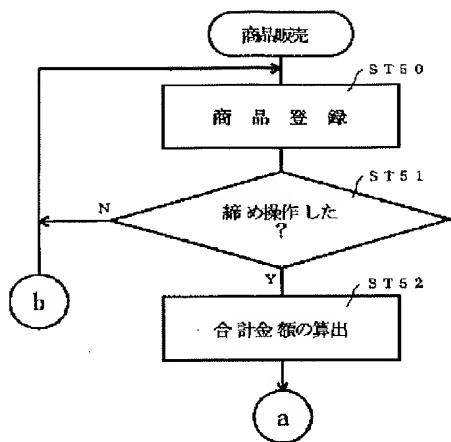


[Drawing 2]

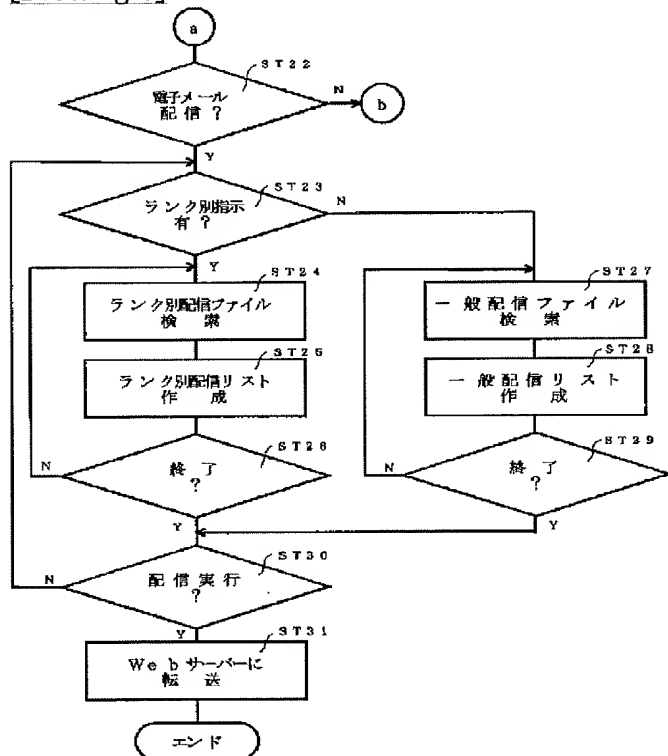


[Drawing 5]

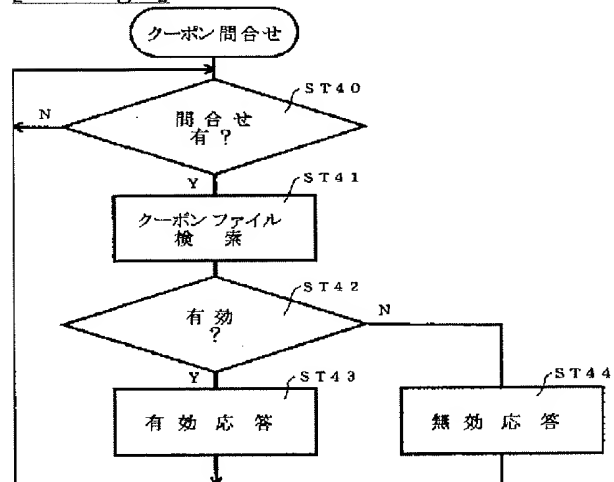




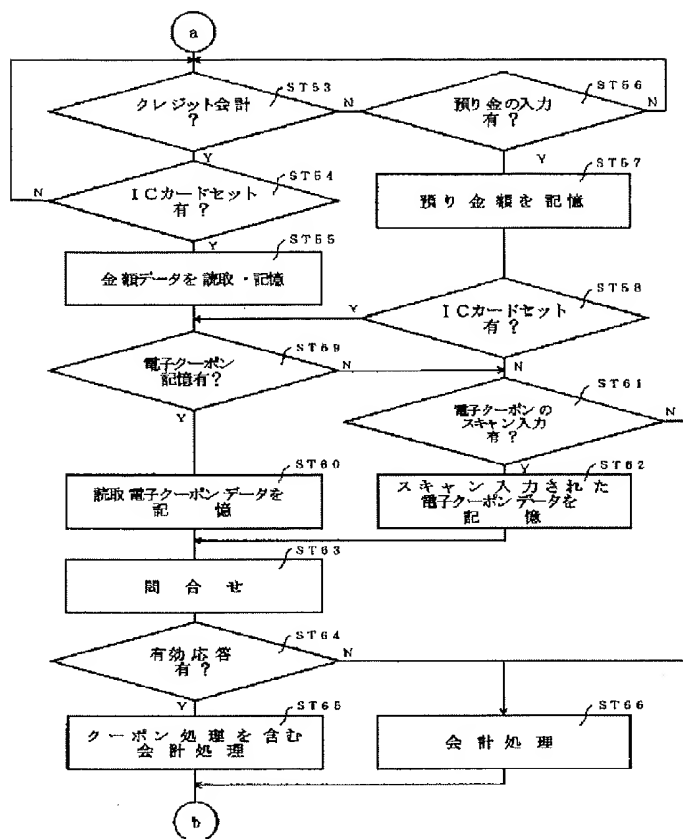
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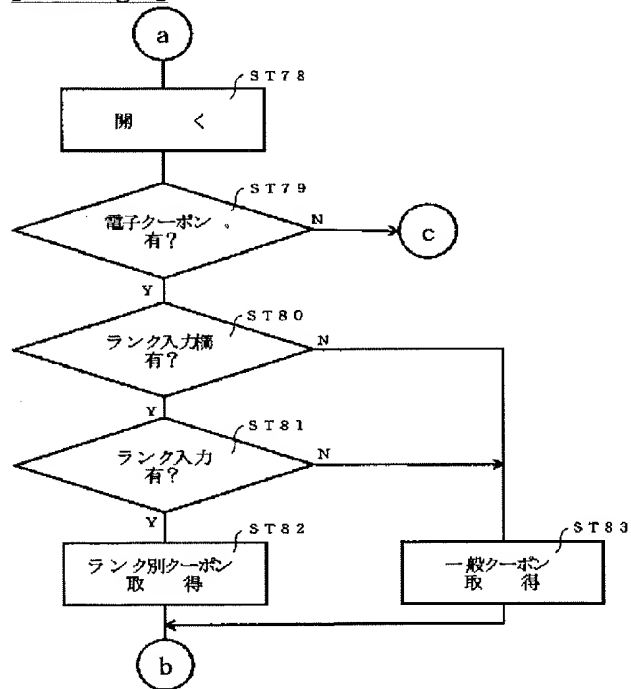
[Drawing 4]



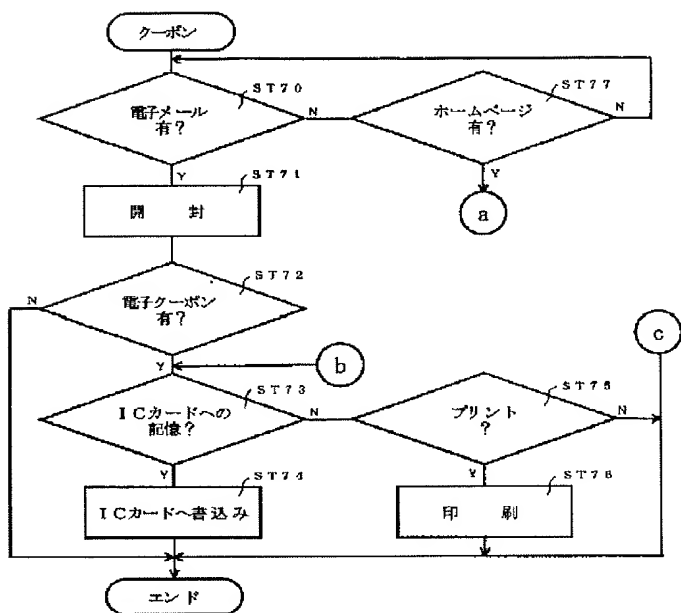
[Drawing 6]



[Drawing 8]



[Drawing 7]



[Translation done.]



## 【特許請求の範囲】

【請求項 1】 商品登録機能および会計処理機能を有する商品販売データ処理システムにおいて、クーポンデータを入力して電子クーポンを作成可能かつ作成された電子クーポンをネットワークを介して配信可能に形成するとともに、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読み取り可能かつ読取電子クーポンデータを反映させた前記会計処理を実行可能に形成した商品販売データ処理システム。

【請求項 2】 商品登録機能および会計処理機能を有する商品販売データ処理システムにおいて、クーポンデータを入力するクーポンデータ入力手段と、入力されたクーポンデータを利用して電子クーポンを作成する電子クーポン作成手段と、作成された電子クーポンを記憶するクーポンファイルと、このクーポンファイルに記憶された電子クーポンをネットワークを介して配信する電子クーポン配信手段と、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読み取る電子クーポンデータ読取手段と、読み取られた電子クーポンデータを反映させた前記会計処理を実行する反

映処理手段とを設けた商品販売データ処理システム。

【請求項 3】 前記電子クーポン作成手段がランク別電子クーポンを作成可能に形成されている請求項 2 記載の商品販売データ処理システム。

【請求項 4】 前記電子クーポン配信手段が前記ランク別電子クーポンを当該ランク別に配信可能に形成されている請求項 3 記載の商品販売データ処理システム。

【請求項 5】 前記電子クーポン配信手段が電子メールの形で前記電子クーポンを配信可能に形成されている請求項 2 から請求項 4 までのいずれか 1 項に記載された商品販売データ処理システム。

【請求項 6】 前記電子クーポン配信手段がインターネットのホームページの形で前記電子クーポンを配信可能に形成されている請求項 2 から請求項 4 までのいずれか 1 項に記載された商品販売データ処理システム。

【請求項 7】 前記記憶媒体が IC カードから形成されかつ前記電子クーポンデータ読取手段が IC カードに記憶されている前記配信済電子クーポンの電子クーポンデータを読取可能な IC カードリーダーから形成されている請求項 2 から請求項 6 までのいずれか 1 項に記載された商品販売データ処理システム。

【請求項 8】 前記 IC カードがクレジットカードを兼用するものとされている請求項 7 記載の商品販売データ処理システム。

【請求項 9】 前記記憶媒体がプリンタを用いて前記配信済電子クーポンの電子クーポンデータを印刷可能なシートから形成されかつ前記電子クーポンデータ読取手段がシートに記憶されている電子クーポンデータを読み取可能なスキャナから形成されている請求項 2 から請求項 6 までのいずれか 1 項に記載された商品販売データ処理シ

ステム。

【請求項 10】 前記配信済電子クーポンの電子クーポンデータが前記スキャナで読取り可能なバーコードまたは 2 次元コードで前記シートに印刷される請求項 9 記載の商品販売データ処理システム。

【請求項 11】 前記スキャナが前記商品登録の際に商品から商品コードを読み取るスキャナから形成されている請求項 10 記載の商品販売データ処理システム。

## 【発明の詳細な説明】

## 【0001】

【発明の属する技術分野】本発明は、商品登録機能および会計処理機能を有し、特に電子クーポンを作成・配信および配信電子クーポンの読取り・反映会計処理が行える商品販売データ処理システムに関する。

## 【0002】

【従来の技術】商品販売データ処理システムは、複数の電子キャッシュレジスタからなり、各端末（電子キャッシュレジスタ等）と各端末を一括管理する上位機（ストアコントローラ）とをデータ通信可能に接続したものであり、さらに上位機と店舗外のホストコンピュータとをデータ通信可能に接続した構成とされている。

【0003】いずれにしても、各端末（電子キャッシュレジスタ）で商品登録を行いかつ会計処理している。この会計の際に、客がクーポンを提出すれば当該クーポンで約束された値引き等のサービスを受けることができる。

【0004】このクーポンは、一般的に、新聞、雑誌等のメディアやこれらに付随的なチラシ等に印刷して配布される。また、クーポン内容は文字情報が圧倒的である。

## 【0005】

【発明が解決しようとする課題】ところで、メディアを介した場合は、コスト高でかつ時間的遅れがあるので客にとっては利用し難い場合も多く、店舗側にとってはその有効期間外の場合の取扱が難しく。また、例えば新聞からのクーポン切り取り状態がまちまちであり、さらに汚れや破損がある場合には業務能率が低下する。さらに、常連客と一般客との個別化されたクーポンを発行することが難しい。

【0006】本発明の目的は、迅速かつ低コストで配布できるとともにその実行に際する取扱が簡単な商品販売データ処理システムを提供することにある。

## 【0007】

【課題を解決するための手段】請求項 1 の発明は、商品登録機能および会計処理機能を有する商品販売データ処理システムにおいて、クーポンデータを入力して電子クーポンを作成可能かつ作成された電子クーポンをネットワークを介して配信可能に形成するとともに、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読み取り可能かつ読取電子クーポンデータを反映

させた前記会計処理を実行可能に形成された商品販売データ処理システムである。

【0008】かかる発明では、システム内において入力されたクーポンデータに基づき電子的にクーポンが作成される。作成された電子クーポンは、ネットワークを介して配信（配布）される。かくして、迅速に配布できかつ低コストである。また、客は電子クーポンを記憶媒体に記憶することにより電子クーポンを迅速に入手できるから利用性が高まる。すなわち、その後の会計の際に記憶媒体を提出すると、そこに記憶された配信済電子クーポンデータが読取られかつ当該電子クーポンデータを反映した会計処理が受けられる。店舗側にとっても、画一的な記憶媒体であるから、取扱が簡単で業務能率も向上できる。したがって、クーポンを迅速かつ低コストで配布できるとともに、その実行（反映させた会計処理）に際する取扱が簡単である。

【0009】また、請求項2の発明は、商品登録機能および会計処理機能を有する商品販売データ処理システムにおいて、クーポンデータを入力するクーポンデータ入力手段と、入力されたクーポンデータを利用して電子クーポンを作成する電子クーポン作成手段と、作成された電子クーポンを記憶するクーポンファイルと、このクーポンファイルに記憶された電子クーポンをネットワークを介して配信する電子クーポン配信手段と、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読み取る電子クーポンデータ読取手段と、読み取られた電子クーポンデータを反映させた前記会計処理を実行する反映処理手段とを設けた商品販売データ処理システムである。

【0010】かかる発明では、クーポンデータ入力手段を用いてクーポンデータを入力すると、電子クーポン作成手段が、入力されたクーポンデータを利用して電子クーポンを作成する。すると、電子クーポン配信手段が、直ちにあるいは指令を待って、作成されかつクーポンファイルに記憶された電子クーポンをネットワークを介して配信する。客は、配信された電子クーポンを記憶媒体に例えば電子的にあるいは機械的に記憶する。

【0011】客から記憶媒体を受け取った係員は、電子クーポンデータ読取手段を用いて記憶媒体から電子クーポンデータを読み取る。すると、反映処理手段が、読み取られた電子クーポンデータを反映させた会計処理を実行する。

【0012】したがって、請求項1の発明の場合と同様な作用効果を奏し得ることはもとより、さらにクーポンデータ入力手段および電子クーポンデータ読取手段の操作だけで電子クーポンの作成・配布および読取り・割引等を含む会計処理ができるから、一段と取扱が容易である。

【0013】また、請求項3の発明は、前記電子クーポン作成手段がランク別電子クーポンを作成可能に形成さ

れている商品販売データ処理システムである。

【0014】かかる発明では、例えばクーポンデータ入力手段やランク入力手段を利用してランクデータを入力すれば、電子クーポン作成手段がランク別の電子クーポンを作成する。かくして、電子クーポン配信手段が例えばインターネットホームページにより配信可能に構築されている場合には、客はランク（例えば、会員番号…パスワード）を入力して当該ランクのクーポンを選択することにより当該ランクの電子クーポンを記憶媒体に記憶することができる。

【0015】したがって、請求項2の発明の場合と同様な作用効果を奏することができることに加え、さらに例えば常連客に対する格別のクーポンサービスをする個別的、差別化的な運用ができる。

【0016】また、請求項4の発明は、前記電子クーポン配信手段が前記ランク別電子クーポンを当該ランク別に配信可能に形成されている商品販売データ処理システムである。

【0017】かかる発明では、電子クーポン配信手段は、例えば電子メール形式で、ランク別電子クーポンを当該ランク別に配信することができる。したがって、請求項3の発明の場合と同様な作用効果を奏することができることに加え、さらにランク別クーポンの配布を一段と正確かつ迅速に行える。

【0018】また、請求項5の発明は、前記電子クーポン配信手段が、電子メールの形で前記電子クーポンを配信可能に形成されている商品販売データ処理システムである。

【0019】かかる発明では、電子クーポン配信手段は、電子メールの形で、電子クーポンを配信する。したがって、請求項2から請求項4までの発明の場合と同様な作用効果を奏することができることに加え、さらに各客宛に当該クーポンを正確に配布することができる。

【0020】また、請求項6の発明は、前記電子クーポン配信手段がインターネットのホームページの形で前記電子クーポンを配信可能に形成されている商品販売データ処理システムである。

【0021】かかる発明では、電子クーポン配信手段は、インターネットのホームページの形で、電子クーポンを配信する。したがって、請求項2から請求項4までの発明の場合と同様な作用効果を奏することができることに加え、さらにクーポンを必要とするより多数の一般客に迅速に配布することができる。

【0022】また、請求項7の発明は、前記記憶媒体がICカードから形成されかつ前記電子クーポンデータ読取手段がICカードに記憶されている前記配信済電子クーポンの電子クーポンデータを読取可能なICカードリーダーから形成されている商品販売データ処理システムである。

【0023】かかる発明では、配信先では、配信された



電子クーポンを IC カードからなる記憶媒体に記憶する。店舗では、電子クーポンデータ読取手段を用いて、客から提出された IC カードに記憶されている配信済電子クーポンの電子クーポンデータを読取る。

【0024】したがって、請求項 2 から請求項 6 までの発明の場合と同様な作用効果を奏することができることに加え、さらに電子クーポンデータを迅速かつ正確に読取れるとともに取扱がより簡単である。

【0025】さらに、請求項 8 の発明は、前記 IC カードがクレジットカードを兼用するものとされている商品販売データ処理システムである。

【0026】かかる発明では、クレジット会計する際にクレジットカードからクレジットデータとともに電子クーポンデータを同時に読み取ることができる。したがって、請求項 7 の発明の場合と同様な作用効果を奏することができることに加え、さらにクーポン反映に対する読取操作等を一掃可能であるから、一段と業務効率を向上できる。

【0027】さらに、請求項 9 の発明は、前記記憶媒体がプリンタを用いて前記配信済電子クーポンの電子クーポンデータを印刷可能なシートから形成されかつ前記電子クーポンデータ読取手段がシートに記憶されている電子クーポンデータを読取可能なスキャナから形成されている商品販売データ処理システムである。

【0028】かかる発明では、客は配信された電子クーポンをプリンタを用いてシートに印刷記憶すればよい。店舗側では、例えば商品登録時に使用するスキャナを用いて電子クーポンデータを読取ることができる。したがって、請求項 2 から請求項 6 までの発明の場合と同様な作用効果を奏することができることに加え、さらに客および店舗側の装置経済が有利であり、一段の普及拡大が容易である。

【0029】さらに、請求項 10 の発明は、前記配信済電子クーポンの電子クーポンデータが前記スキャナで読取り可能なバーコードまたは 2 次元コードで前記シートに印刷される商品販売データ処理システムである。

【0030】かかる発明では、電子クーポンデータがスキャナで読取り可能なバーコード（または、2 次元コード）であるから、従来の印刷文字情報のみの場合に比較してシートに大量のデータ量を記憶させることができる。したがって、請求項 9 の発明の場合と同様な作用効果を奏することができることに加え、さらに電子クーポンの多様な形態による運用ができる。

【0031】さらにまた、請求項 11 の発明は、前記スキャナが前記商品登録の際に商品から商品コードを読み取るスキャナから形成されている商品販売データ処理システムである。

【0032】かかる発明では、スキャナを用いた商品登録後の会計処理に際して当該スキャナを用いてシートから電子クーポンデータを読取ることができる。したがっ

て、請求項 10 の発明の場合と同様な作用効果を奏することができることに加え、さらに取扱がより簡単で迅速な会計処理ができる。

#### 【0033】

【発明の実施の形態】以下、本発明の実施形態について図面を参照して詳細に説明する。本商品販売データ処理システムは、図 1 に示す構成とされ、かつクーポンデータを入力して電子クーポンを作成可能かつ作成されかつクーポンファイル（33CF）に記憶された電子クーポンをネットワーク（3）を介して配信可能に形成するとともに、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読取り可能かつ読取電子クーポンデータを反映させた会計処理を実行可能に形成されている。

【0034】図 1 において、各端末を形成する電子キャッシュレジスタ 10 は、CPU 11、ROM 12、RAM 13、HDD（ハードディスク装置）14、スキャナ（SCN）15、キーボード（KB）16、表示器（IND）17、プリンタ（PNT）18、データ通信回線（LAN）1 用のインターフェイス（I/F）19、自動開放装置付きのドロワ（DRW）29 および IC カードのリーダーライタ（R/W）20 を含み、商品登録機能、会計処理機能、クーポン反映機能等を有する。

【0035】すなわち、スキャナ 15 を用いた商品情報（商品コード）の入力に基づき商品登録（図 5 の ST 50）することができる。キー操作により締め操作（ST 51 の YES）を実行すると、制御部（11、12）が合計金額を算出（ST 52）する。

【0036】現金会計の場合は、入力・記憶（図 6 の ST 56、ST 57）された合計金額および預り金を利用した釣銭額の算出等を含む会計処理（ST 66）が実行される。ドロワ 29 は自動開放され、プリンタ 18 で印字されたレシートも発行される。

【0037】クレジット会計の場合は、リーダーライタ 20 に挿入されたクレジットカード（IC カード）から読取・記憶（ST 53、ST 54、ST 55）された金額データを利用して会計処理（ST 66）が実行される。

【0038】ここに、スキャナ 15 は、商品に印刷された 2 次元コード（または、バーコードでもよい。）から商品コードを読取可能でかつ記憶媒体を形成するシート（例えば、用紙）に記憶された 2 次元コード（または、バーコードでもよい。）の電子クーポンデータも読取可能に形成されている。

【0039】また、リーダーライタ 20 は、記憶媒体を兼用するクレジットカード（IC カード）から金額データを読取可能かつ記憶されている電子クーポンデータも読取可能に形成されている。

【0040】次に、ストアコントローラ 30 は、図 1 に示す如く、CPU 31、ROM 32、RAM 33、HD

D34, キーボード36, 表示器37, データ通信回線(LAN)1用のインターフェイス(I/F)38およびデータ通信回線(ISDN)2用のインターフェイス(I/F)39を含み、各端末(10)の一括管理機能と電子クーポン配信機能等を有する。

【0041】また、ストアコントローラ30は、Webサーバ50を介してインターネット3に接続されている。クライアント側のパソコン40は、データ通信回線(ISDN)2およびプロバイダサーバ60を介してインターネット3に接続されている。

【0042】このパソコン40は、制御部(CPU, ROM, RAM)41, キーボード42, 表示器42, プリンタ44, ICカードのリーダーライタ45およびデータ通信回線(ISDN)2用のインターフェイス49を含み、かつ閲覧ソフト・電子メールソフト等がインストール済みである。

【0043】この実施形態では説明簡略化便宜のために、電子クーポンを記憶可能かつ読取可能な記憶媒体を、電子クーポンデータを迅速かつ正確に読取れるとともに取扱がより簡単であるICカードと、客および店舗側の装置経済が有利であり一段の普及拡大が容易であるシート(用紙)との双方から形成し、選択的に利用可能に形成してあるが、そのいずれか一方だけを備えたシステムと、その他方のみを備えたシステムでも実施することができる。

【0044】ここにおいて、ストアコントローラ30側で、電子クーポン作成を要求指示(図2のST10でYES)し、かつクーポンデータ入力手段(キーボード36)を用いてクーポンデータを入力(ST11のYES)する。この入力には、文字情報のみならず、例えば内蔵ソフトを利用した画像情報の入力も含まれる。

【0045】すると、電子クーポン作成手段(CPU31, ROM32)が、電子クーポンを作成する(ST12, ST13のYES)。作成された電子クーポン(電子クーポンデータ)は、図1に示す一般クーポンファイル33CFに格納(ST14)されかつHDD34でバックアップされる。

【0046】また、電子クーポン作成手段(31, 32)は、クーポンデータ入力手段(36)を用いて入力されたクーポンデータおよびランク入力手段(キーボード36)を用いて入力されたランクデータを利用して、ランク別電子クーポン(電子クーポンデータ)を作成することができる(ST11~ST14)。

【0047】作成されたランク別電子クーポンは、図1に示すランク別クーポンファイル33CFRに格納(ST14)されかつHDD34でバックアップされる。かくすれば、例えば常連客に対する格別のクーポンサービスをする個別的、差別化的な運用ができる。

【0048】ここに、ストアコントローラ30側において、ホームページ開設(配信開設)を選択(ST15の

YES)すると、電子クーポン配信データ作成手段(CPU31, ROM32)が、クーポンファイル(33CF, 33CFR)を検索(ST16)してこれに記憶されている電子クーポンを読み出しつつ配信データを作成する。

【0049】ランク別配信データの場合(ST17のYES, ST18)は図1に示すランク別配信ファイル33TFRに記憶され、一般配信データの場合(ST17のNO, ST19)は一般配信ファイル33TFに記憶される。

【0050】かくして、作成が終了(ST20のYES)すると、電子クーポン配信手段(CPU31, ROM32)が、当該電子クーポンをWebサーバ50に転送する(ST21)。

【0051】また、電子メール配信を選択(図3のST22でYES)すると、電子クーポンメール配信リスト作成手段(CPU31, ROM32)が、ランク別指示がある場合(ST23のYES)は、ランク別配信ファイル33TFRを検索(ST24)してランク別配信リストを作成する(ST25, ST26)。

【0052】ランク別指示がない場合(ST23のNO)は、一般配信ファイル33TFを検索(ST27)して一般配信リストを作成する(ST28, ST29)。

【0053】かくして、電子クーポンの作成が終了しかつ配信実行指令があると(ST30のYES)、電子クーポン配信手段(CPU31, ROM32)が、Webサーバ50に転送する(ST21)。つまり、電子メールでそれぞれに電子クーポンが配信される。

【0054】なお、Webサーバはストアコントローラ30と一体的に構成してもよい。

【0055】クライアント(パソコン40)では、電子メールがある場合(図7のST70でYES)は、これを開く(ST71)。電子クーポンがあれば(ST72のYES)、必要によって、リーダーライタ45を用いてICカード(クレジットカード…記憶媒体)に書込み記憶する(ST73, ST74)。あるいは、プリンタ44を用いて用紙(記憶媒体)に印刷する(ST75, ST76)。これにより、自己宛の格別の電子クーポンを正確かつ迅速に入手することができる。

【0056】また、当該店舗のホームページを開いて(図7のST77でYES、図8のST78)、電子クーポンがある場合(ST79のYES)は、リーダーライタ45を用いてICカード(クレジットカード…記憶媒体)に書込み記憶あるいはプリンタ44を用いて用紙(記憶媒体)に印刷することにより電子クーポンを取得することができる(ST82, ST83)。

【0057】ただし、ランク入力欄への自己ランク入力を要件(ST80のYES)とする自己宛の格別(ランク)の電子クーポンを取得(ST82)するには、自己

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のランク（この実施形態では、当該店舗から付与された会員番号またはクレジットカード番号）をキー入力（ST81のYES）しなければならない。

【0058】さて、店舗において電子キャッシュレジスタ10でかつ現金会計（図6のST56でYES）する場合に、記憶媒体たるICカードを受け取った係員（キャッシュャー）が、当該カードを電子クーポンデータ読取手段たるICカードリーダー（リーダーライタ20）にセット（ST58のYES）すると、電子クーポンデータが読取され一時記憶される（ST59のYES、ST60）。

【0059】すると、当該電子キャッシュレジスタ10の間合せ手段（CPU11、ROM12）が、有効期間等についてストアコントローラ30に問合せをする（ST63）。

【0060】これを受信（図4のST40でYES）したストアコントローラ30側では、クーポンファイル（33CF、33CFR）を検索（ST41）し、当該電子クーポンの有効期間等について有効か否かを判別（ST42）する。応答手段（CPU31、ROM32）は、当該電子キャッシュレジスタ10に有効応答（ST43）または無効応答（ST44）をする。

【0061】当該電子キャッシュレジスタ10では、有効応答を受信する（図6のST64でYES）と、反映処理手段（CPU11、ROM12）が、当該電子クーポンのクーポンサービス内容を反映させた会計処理（ST65）を実行する。無効応答を受信（ST64のNO）した場合には、クーポンサービスのない会計処理（ST66）である。

【0062】クレジット会計の場合（ST53のYES）も同様である（ST54、ST55、ST59のYES、ST60、ST63～ST65）。

【0063】また、クーポンを印刷したシート（用紙…記憶媒体）が提出された場合は、スキャナ（電子クーポンデータ読取手段）15を用いて電子クーポンデータをスキャン入力（ST58のYES）する。この場合にも、クーポンサービスを受けられる（ST62、ST63～ST65）。

【0064】画一的で汚れ等のない記憶媒体（クーポン）であるから、読取作業が簡単でかつ業務効率が向上する。また、ランク別クーポンサービスも他の客に不信感を持たせずに円滑に処理できる。

【0065】しかして、この実施形態によれば、入力クーポンデータを用いて作成された電子クーポンをネットワーク（2、3、2）を介して配信可能であるとともに、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読取り可能かつ読取電子クーポンデータを反映させた会計処理（図6のST65）を実行可能に形成されているので、クーポンを迅速かつ大幅な低コストで配布できるとともにその実行（反映させた会

計処理）に際する取扱が簡単である。

【0066】また、クーポンデータ入力手段（36）と電子クーポン作成手段（31、32）とクーポンファイル（33CF、33CFR）と電子クーポン配信手段（31、32）と記憶媒体から当該電子クーポンデータを読み取る電子クーポンデータ読取手段（15、20）と反映処理手段（11、12）とを設け、ストアコントローラ30側で電子クーポンを作成かつ配信可能に形成されるとともに各電子キャッシュレジスタ10で読取って反映会計処理可能に形成されているので、電子クーポン作成にはクーポンデータ入力手段（36）および記憶媒体からの電子クーポン読取には電子クーポンデータ読取手段（15または20）の操作をするだけで、クーポン作成・配布および記憶クーポンの読取・割引き等を含む会計処理ができる。一段と取扱が容易である。

【0067】また、電子クーポン作成手段（31、32）が、ランク別電子クーポンを作成可能であるから、例えば常連客に対する格別のサービス等の個別的運用ができる。

【0068】また、電子クーポン配信手段（31、32）が、ランク別電子クーポンを当該ランク別に配信可能であるから、ランク別クーポンの配布を一段と正確かつ迅速に行える。

【0069】また、クーポンファイルが、一般クーポンファイル33CFおよびランク別クーポンファイル33CFRから形成されているので、データ処理が容易でかつミス作成を極減できる。

【0070】また、電子クーポン配信データ作成手段（31、32）が、クーポンファイル（33CF、33CFR）を検索しつつ作成したランク別配信データをランク別配信ファイル33TFRに記憶しかつ一般配信データの場合を一般配信ファイル33TFに記憶するものと形成されているので、一般とランク別との混同がなく、何時でも正確かつ迅速に作成かつ配信できる。

【0071】また、電子メール配信の場合には、電子クーポンメール配信リスト作成手段（31、32）が、ランク別配信リストおよび一般配信リストを作成するものと形成されているので、この点からもより正確かつ迅速に電子メール配信することができる。

【0072】また、電子キャッシュレジスタ10側に問合せ手段（11、12）を設けかつストアコントローラ30側に問合せに係る電子クーポンの有効期間等について有効か否かを判別する判別手段（CPU31、ROM32）と応答手段（31、32）とを設け、当該電子キャッシュレジスタ10が有効応答を受信した場合に反映処理手段（11、12）が当該電子クーポンのクーポンサービス内容を反映させた会計処理（ST65）を実行可能に形成されているので、キャッシュャーによる有効期間等のチェックを一掃できるとともに、正確なクーポンサービスの運用ができる。

【0073】また、電子クーポン配信手段（31，32）が、電子メールの形で電子クーポンを配信可能に形成されているので、各客に当該クーポンを正確に配布することができる。

【0074】また、電子クーポン配信手段（31，32）が、インターネット3のホームページの形で電子クーポンを配信可能に形成されているので、クーポンを必要とするより多数の客に迅速に配布できる。

【0075】また、記憶媒体がICカードから形成されかつ電子クーポンデータ読取手段がICカードリーダー（20）から形成されているので、電子クーポンデータを迅速かつ正確に読取れるとともに取扱がより簡単である。

【0076】さらに、ICカードがクレジットカードを兼用するものとされているので、クーポン反映に対する読取操作等を一掃可能であるから、一段と業務能率を向上できる。

【0077】さらに、記憶媒体がプリンタ44を用いて配信済電子クーポンの電子クーポンデータを印刷可能なシート（用紙）から形成されかつ電子クーポンデータ読取手段がスキャナ15から形成されているので、客および店舗側の装置経費が有利であり、一段と普及拡大が容易である。

【0078】さらに、配信済電子クーポンの電子クーポンデータがスキャナ（15）で読取可能な2次元コード（または、バーコードであってもよい。）でシート（用紙等）に印刷されるものとされているので、電子クーポンに画像データを含めるなどの多様な形態による運用ができる。

【0079】さらにまた、普及が目覚しくかつ取扱いが簡単なパソコン40で電子クーポンを取得できるので、客にとってもクーポン（記憶媒体）の取扱が楽で、店舗側にとっても汚れや破損がないので扱い性および業務能率が向上する。

【0080】さらにまた、電子クーポン読取用スキャナが商品登録の際に商品から商品コードを読み取るスキャナ15から形成されているので、取扱がより簡単で迅速な会計処理ができる。

【0081】さらにまた、各店舗に共通な電子クーポンを1店舗（30）で作成かつ配信することができるから、広域で大規模チェーン店でも迅速に配布できる。

#### 【0082】

【発明の効果】請求項1の発明によれば、クーポンデータを入力して電子クーポンを作成かつネットワークを介して配信可能に形成され、配信済電子クーポンが記憶された記憶媒体から当該電子クーポンデータを読取りかつ読取電子クーポンデータを反映させた会計処理を実行可能に形成された商品販売データ処理システムであるから、電子クーポンを迅速かつ低コストで配布できるとともにその実行（反映させた会計処理）に際する取扱が簡

単である。大量なクーポン配布効果もある。

【0083】また、請求項2の発明によれば、クーポンデータ入力手段と電子クーポン作成手段とクーポンファイルと電子クーポン配信手段と電子クーポンデータ読取手段と反映処理手段とを設け、電子クーポンを作成かつ配信可能に形成されかつ記憶媒体から電子クーポンを読取って反映会計処理可能に形成されているので、請求項1の発明の場合と同様な効果を奏し得ることはもとより、さらにクーポンデータ入力手段および電子クーポンデータ読取手段の操作をするだけでクーポン作成・配布および記憶クーポン読取り・引き等を含む会計処理ができるから、一段と取扱が容易である。

【0084】また、請求項3の発明によれば、電子クーポン作成手段がランク別電子クーポンを作成可能に形成されているので、請求項2の発明の場合と同様な効果を奏することができることに加え、さらに例えば常連客に対する格別のクーポンサービスをする等の個別的、差別的な運用ができる。

【0085】また、請求項4の発明によれば、電子クーポン配信手段がランク別電子クーポンを当該ランク別に配信可能に形成されているので、請求項3の発明の場合と同様な効果を奏することができることに加え、さらにランク別クーポンの配布を一段と正確かつ迅速に行える。

【0086】また、請求項5の発明によれば、電子クーポン配信手段が電子メールの形で電子クーポンを配信可能に形成されているので、請求項2から請求項4までの発明の場合と同様な効果を奏することができることに加え、さらに各客宛に当該クーポンを正確に配布することができる。

【0087】また、請求項6の発明によれば、電子クーポン配信手段がインターネットのホームページの形で電子クーポンを配信可能に形成されているので、請求項2から請求項4までの発明の場合と同様な効果を奏することができることに加え、さらにクーポンを必要とするより多数の一般客に迅速に配布することができる。

【0088】また、請求項7の発明によれば、記憶媒体がICカードから形成されかつ電子クーポンデータ読取手段がICカードに記憶されている配信済電子クーポンの電子クーポンデータを読取可能なICカードリーダーから形成されているので、請求項2から請求項6までの発明の場合と同様な効果を奏することができることに加え、さらに電子クーポンデータを迅速かつ正確に読取れるとともに取扱がより簡単である。

【0089】さらに、請求項8の発明によれば、ICカードがクレジットカードを兼用するものとされているので、請求項7の発明の場合と同様な効果を奏することができることに加え、さらにクーポン反映に対する読取操作等を一掃可能であるから、一段と業務能率を向上できる。

【0090】さらに、請求項9の発明によれば、記憶媒体がプリンタを用いて配信済電子クーポンを印刷可能なシートから形成されかつ電子クーポンデータ読取手段がシートから電子クーポンデータを読取可能なスキャナから形成されているので、請求項2から請求項6までの発明の場合と同様な効果を奏することができることに加え、さらに客および店舗側の装置経済が有利であり、一段の普及拡大が容易である。

【0091】さらに、請求項10の発明によれば、電子クーポンデータがバーコードまたは2次元コードでシートに印刷されるものとされているので、請求項9の発明の場合と同様な効果を奏することができることに加え、さらに電子クーポンに画像データを含める等の多様な形態による運用ができる。

【0092】さらにまた、請求項11の発明によれば、スキャナが商品登録の際に商品から商品コードを読み取るスキャナから形成されているので、請求項10の発明の場合と同様な効果を奏することができることに加え、さらに取扱がより簡単で迅速な会計処理ができる。

#### 【図面の簡単な説明】

【図1】本発明の実施形態を示すブロック図である。

【図2】同じく、ストアコントローラ側の動作を説明するためのフローチャート(1)である。

【図3】同じく、ストアコントローラ側の動作を説明するためのフローチャート(2)である。

【図4】同じく、ストアコントローラ側の動作を説明するためのフローチャート(3)である。

【図5】同じく、電子キャッシュレジスタ側の動作を説明するためのフローチャート(1)である。

【図6】同じく、電子キャッシュレジスタ側の動作を説明するためのフローチャート(2)である。

【図7】同じく、クライアント(パソコン)側の動作を説明するためのフローチャート(1)である。

【図8】同じく、クライアント(パソコン)側の動作を説明するためのフローチャート(2)である。

#### 【符号の説明】

2 データ通信回線(ネットワーク)

3 インターネット(ネットワーク)

10 電子キャッシュレジスタ(商品販売データ処理システム)

11 CPU(反映処理手段)

12 ROM(反映処理手段)

13 RAM

14 HDD

15 スキャナ(電子クーポンデータ読取手段)

16 キーボード

20 リーダーライター(ICカードリーダー…電子クーポンデータ読取手段)

30 ストアコントローラ(商品販売データ処理システム)

31 CPU(電子クーポン作成手段、電子クーポン配信手段)

32 ROM(電子クーポン作成手段、電子クーポン配信手段)

33 RAM

33CF 一般クーポンファイル(クーポンファイル)

33CFR 一般配信ファイル

33TF ランク別クーポンファイル(クーポンファイル)

33TFR ランク別配信ファイル

34 HDD

36 キーボード(クーポンデータ入力手段)

37 表示器

40 パソコン

41 制御部

42 キーボード

43 表示器

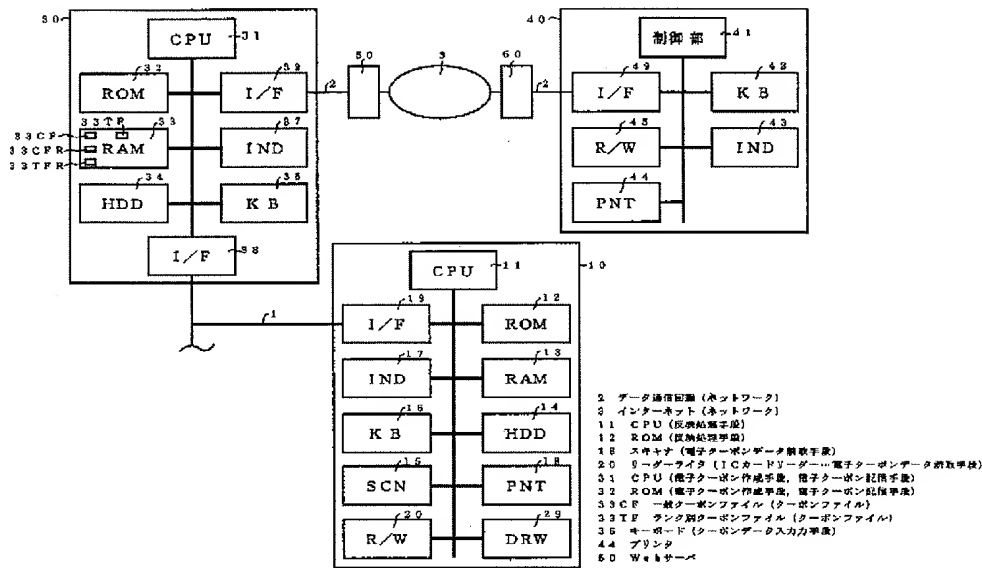
44 プリンタ

45 リーダーライター

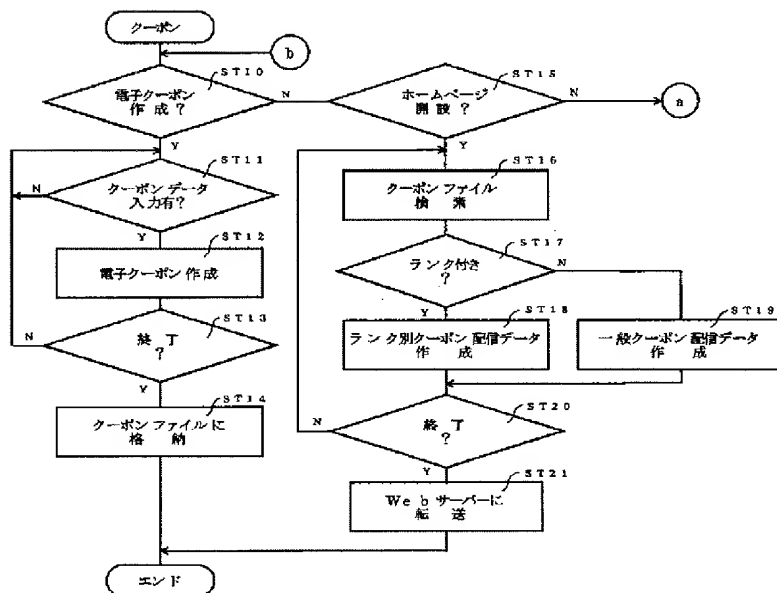
50 Webサーバ

60 プロバイダサーバ

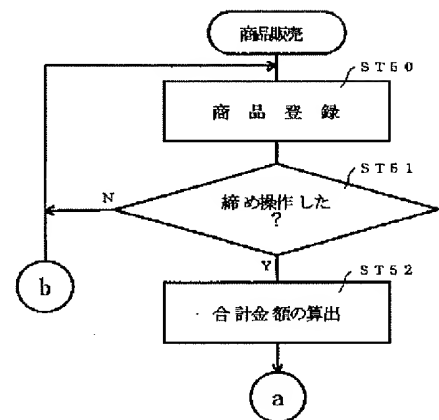
【図1】



【図2】

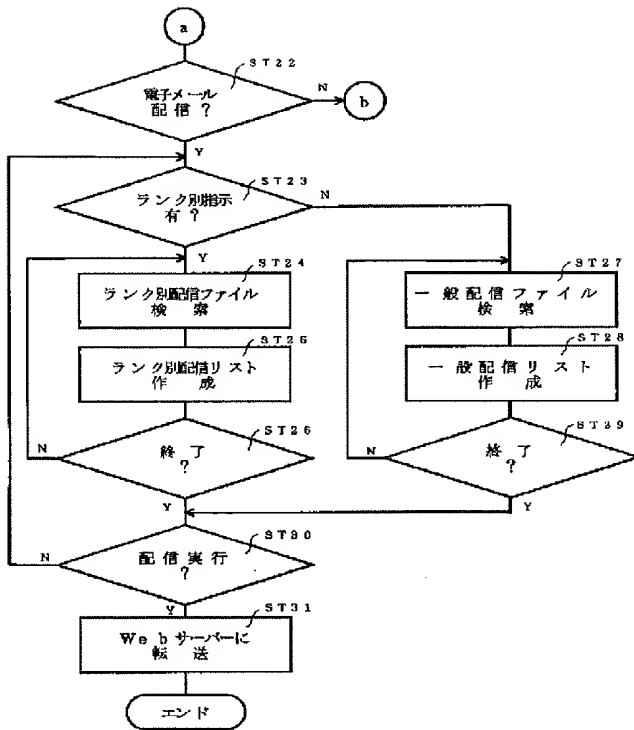


【図5】

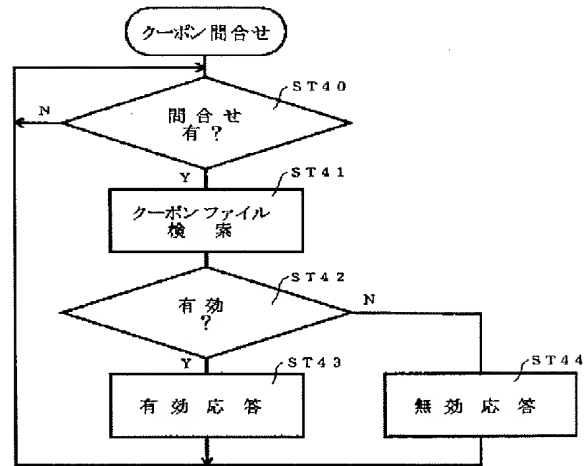




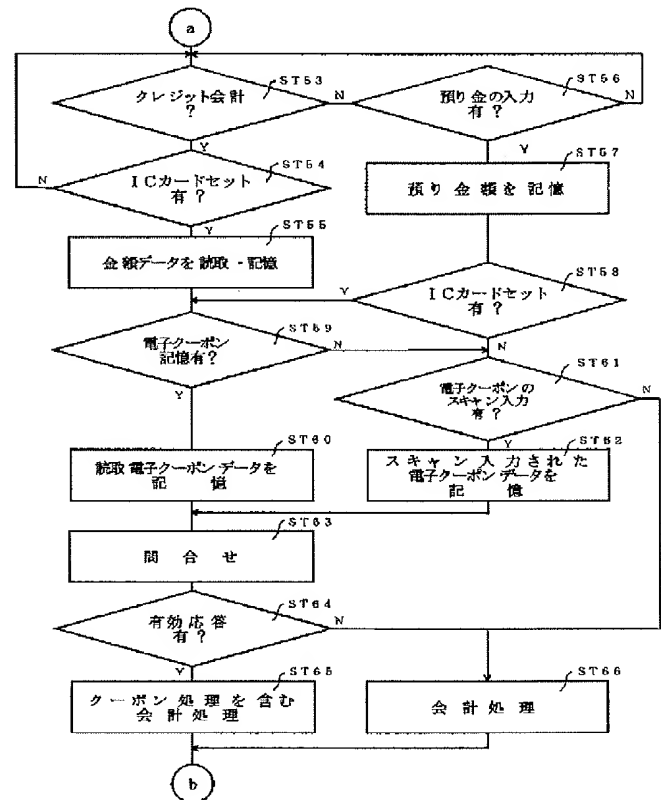
【図3】



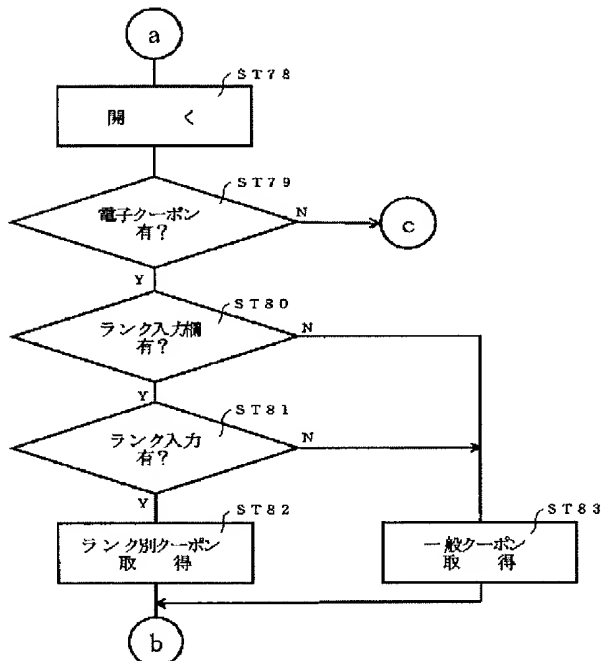
【図4】



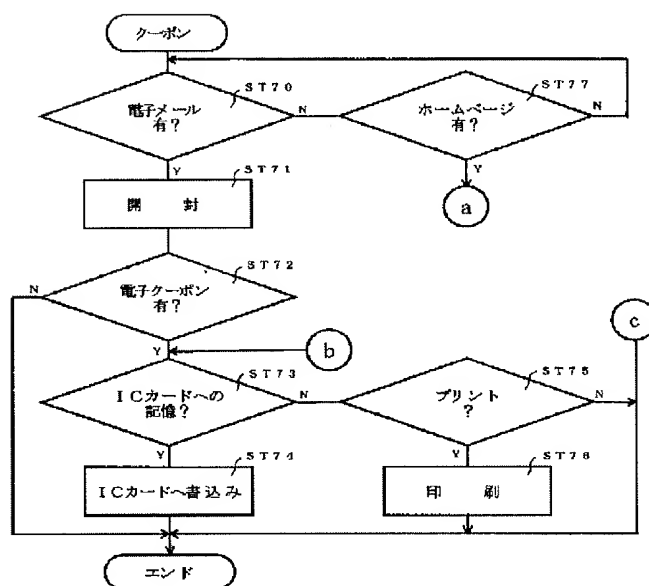
【図6】



【図8】



【図7】



フロントページの続き

F ターム(参考) 3E042 CA02 CC02 CC04 CC10  
 5B049 AA01 BB11 CC37 CC39 DD01  
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 FF02 FF07 FF08 GG02 GG05